1	Section 5-700	Regul	lations fo	or Optional Development Types
2	5-701	Trans	sition (Tl	R) Districts Lot Standards.
3		(A)	Purpose to:	e. The purpose of the Transition (TR) Districts Lot Standards is
5 6 7 8			1	Provide for development in the Transition (TR) zoned areas of the County, in ways that encourage efficient development patterns, and protect primary conservation areas in ways that conform with conservation design standards.
9 10			(2)	Facilitate a transition in the scale of development from the suburban area to the rural area of the County.
11 12 13				Facilitate the protection of the 300-foot buffer proposed along the Bull Run., consistent with the standards and requirements of RSCOD.
14 15 16 17				Facilitate the protection of the 300-foot buffer along the Goose Creek and the Goose Creek Reservoir and the Beaverdam Reservoir., consistent with the standards and requirements of RSCOD:
18 19 20 21		(B)	the sub	<b>ability.</b> The procedures and standards of this section shall apply to division of two or more lots on all lands located in the TR-10, TR-3 JBF, TR-3LBR, TR-3LF), TR-2, and TR-1 (TR-1UBF, TR-1LF) s.
22 23		(C)	Standa subject	ards. The standards of this section shall apply to all development to the TR Districts Lot Standards.
24 25			(1)	<b>Base Density.</b> The maximum gross density allowed in the TR districts under these standards is:
26				(a) TR-10 district: 1 dwelling unit per 10 acres.
27				(b) TR-3 districts: 1 dwelling unit per 3 acres.
28				(c) TR-2 district: 1 dwelling unit per 20,000 sq. ft.
29				(d) TR-1 districts: 1 dwelling unit per 40,000 sq. ft.
30 31			(2)	<b>Open Space.</b> A minimum percentage of the site shall consist of open space, as follows:
32 33				(a) In the TR-10 district, a minimum of 70 percent of the site shall be maintained as open space.
34				(b) In the TR-3 districts:

- (i) In the TR-3LBR sub-district, a minimum of 70 percent of the site shall be maintained as open space.
- (ii) In the TR-3UBF and TR-3LF sub-districts, a minimum of 50 percent of the site shall be maintained as open space.
- (c) In the TR-2 district, a minimum of 50 percent of the site shall be maintained as open space.
- (d) In the TR-1UBF and TR-1LF sub-districts, a minimum of 50 percent of the site shall be maintained as open space.
- (3) Lot and Open Space Standards. The two elements of the subdivision are (1) the lot area(s) and (2) the open space. The site layout of these elements shall occur during the review of a preliminary plat for subdivision, simultaneously with the analysis and site planning required to comply with Section 6 2000 (Conservation Design). Establishment of the lots and open space on the site shall comply with the following standards:
  - (a) **Lot Standards.** Lots shall comply with the following standards (see Table 5-701(C)(3)(a)).

	~ *************************************	`				
TABLE 5-701(C)(3)(a): LOT STANDARDS						
District	Lot Grouping	Min. Size Lot	Min. Front Yard	Min. Rear Yard	Min. Side Yard	Max. Building Height
TR-10	Minimum: 5 Maximum: No maximum Lots of less than 5 acres must be grouped in accord with Section 5-701(C)(3)(a)(ii).	None	20 feet	25 feet	10 feet	35 feet
TR-3LBR	Minimum: 5; Maximum 25	None	12 feet	25 feet	7 feet	35 feet
TR-3LF, TR-3UBF	Minimum: 5; Maximum 25	None	12 feet	25 feet	7 feet	35 feet
TR-2	Minimum: 5; Maximum 25	None	10 feet	25 feet	5 feet	35 feet
TR-1LF, TR-1UBF	Minimum: 5; Maximum 25	None	10 feet	25 feet	5 feet	35 feet

(i) **Lot Yield.** The total number of lots on a site shall not exceed the number permitted to accommodate the base density established by Section 5-701(C)(1), regardless of whether the lot is used for a residential or nonresidential use.

1 2 3 4 5 6 7 8	(ii)	Number of Lots in a Group. Lots that are less than 5 acres in size shall be located in a contiguous group, with adjacent and fronting lots oriented toward each other, as on a street, green or paved square. The number of grouped lots shall consist of a minimum of 5 lots and a maximum of 25 lots with the exception of TR-10, except that a contiguous group may consist of fewer than 5 lots if:
9 10		1. There will be fewer than 5 lots on the entire site that are less than 5 acres in size; or
11 12 13 14 15 16		2. It is demonstrated that a grouping of fewer than 5 lots will result in greater amounts of contiguous open space or result in less denigration of features within an environmental overlay district—primary conservation—areas—than residential grouping(s) of 5 lots or more.
18 19 20 21	(iii)	Number of Groups. A single group shall contain all the lots on a site that are less than 5 acres, where the total number of such lots is 25 or fewer, except that multiple groups may be allowed where:
22 23 24 25 26		1. It is demonstrated that multiple groups will result in greater amounts of contiguous open space; or result in less denigration of features within an environmental overlay district-primary conservation areas; and
27 28 29		2. None of the groups contain fewer than 5 lots, unless allowed as provided in Section 5-701(C)(3)(a)(ii).
30	(iv)	Dimensional Standards of Lots.
31 32 33		<ol> <li>In the TR districts there is no maximum or minimum lot size.</li> <li>The yard requirements for the lots in the TR districts shall comply with the standards</li> </ol>
34 35		established in Table 5-701(C)(3)(a).
36 37		exceed 35 feet.
38 39 40 41	the cons	en Space. The required percentage of open space or site shall consist of, in order of priority, (1) primary servation area lands, and (2) other lands (lands other primary conservation areas), as follows:
7.1		A 78

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- (i) Primary Conservation Area Lands. All primary conservation area lands shall be included in the open space and shall comply with the requirements of Section 6 2000 (Conservation Design), Section 4 1600 (MDOD), Section 4 1900 (LOD), Section 4 2000 (RSCOD), and Section 5 1508 (Steep Slope Standards), where applicable. One hundred percent (100%) of the primary conservation area lands protected shall be credited against the open space requirement for the subdivision.
- Other Lands. If all primary conservation area lands constitute less than the required percentage of open space, the balance of the open space shall consist of other lands (lands other than primary conservation areas) on the site, in accord with Section 6 2006(A).

#### (iii) Allowed Uses in Open Space.

- The uses allowed on primary conservation area lands are limited to those uses and activities for the respective protected area allowed in the environmental overlay districts or steep slope standards pursuant to Section 4-1600 (MDOD), Section 4-1900 (LOD), Section 4-20001500 (FOD) (RSCOD) and Section 5-1508 (Steep Slope Standards) (also see Section 6-2005(A) (Conservation Design));
- 2. The uses allowed on the open space lands shall be limited to:
  - Activities and uses allowed in open space, as defined in this Ordinance;
  - b. In the TR-10 district and TR-3 districts, uses permitted in the Agriculture, Horticulture and Animal Husbandry Use Categories; and
  - c. Easements and improvements for drainage, passive open space, communal sewer systems and septic systems, communal water supply systems, wells and other water supply systems.

1 2	Such uses and activities shall be subject to applicable environmental overlay district regulations and steep slope standards.
3	regulations and see of see 1
4	(c) Siting of the Open Space and Building Lots.
5 6 7	(i) The location of the open space on the site shall be identified consistent with the requirements of Sections 5-701(C)(3)(b) and 6-2006(A).
8 9 10	(ii) The building lots shall be located on that portion of the site that is outside the open space and within the DDA, and sited consistent with the requirements of Section 6-2006(A).
112 113 114 115 116 117 118 119 20 21 22 23	The lots and buildings within the subdivision shall be sited so as to reduce visibility of the lot groups from public rights-of-way and from other lot groups, by using existing topography, vegetation, distance and other factors to minimize impact. Options include siting lots and buildings sufficiently below ridgelines or treelines that the horizon will remain visually defined by the ridgeline or treeline rather than by the rooftops of the buildings, or placing lots and buildings at the far edge of a field as seen from a public right-of-way or other lot group.
24 25 26 27 28 29 30	(iv) The residential lot group(s) shall be sited so as to relate to the open space and the other lot groups on the site and on adjacent lands, by maximizing the contiguity of other open space features such as vegetation, and natural features such as stream corridors, floodplains, wetlands, steep slopes, ridges, mountainsides, and wildlife habitat.
31 32 33	(D) Ownership and Maintenance of Conservation Areas and Open Space. The conservation areas in the open space shall be owned and maintained in accordance with the provisions of Section 6 2008.
34	(E) Homeowners' Association and Responsibilities.
35 36 37 38 39	(1) If any of the following features are present, the development shall have an incorporated Homeowners' Association ("HOA"). If any of the following areas or improvements are present within the development, the HOA shall have the right and responsibility to maintain the areas or improvements:

		(a)	Common areas within the development, if any, that are not part of the required open space;
		(b)	The open space, if owned by the HOA;
			Any common recreational facilities;
			Private roads, if any, within or serving the development;
			Any storm water management ponds or areas;
			Fire protection pond(s), dry mains, or other improvements;
		(g)	Such other common facilities or improvements as may be designated in the bylaws of the HOA.
	(2)		to approval of a record plat for subdivision for the opment:
		(a)	The landowner shall submit documents for the creation of the HOA to the County for review and approval, including its bylaws, and all documents governing ownership, maintenance, and use restrictions for common areas, including a legal description of such areas and a description of restrictions placed upon the use and enjoyment of the land.
		(b)	The landowner shall agree that the association shall be established by the landowner or applicant and shall be operating (with financial subsidization by the owner or applicant, if necessary) before approval of the first record plat for the property; and
		(c)	Membership in the association shall be automatic (mandatory) for all purchasers of dwelling units therein and their successors in title.
(F)	recor	d plats ment th	g Protection by Right to Farm Act. In the TR districts, and deeds authorized pursuant to this section shall include a at agricultural operations enjoy the protection of the Right to 7a. Code Section 3.1-22.28 et seq.).
5-702 Rui			
(A)	to pr in ru rural it is	ovide a ral area develo	d Intent. The primary purpose of the Rural Hamlet Option is an alternative to conventional A-3 and A-10 district subdivision as. Such clustered development is intended to better harmonize opment with surrounding agricultural activities recognizing that ounty's primary goal to preserve and enhance farming and rural Loudoun by the most feasible, effective, and equitable ailable. This option is intended to conserve agricultural, forestal
	5-702 Rui	(F) Recorector states Farm  5-702 Rural Haml  (A) Pury to prin rurural it is	(2) Prior development (a)  (b)  (c)  (F) Recognizing record plats statement the Farm Act (V)  5-702 Rural Hamlet Option (A) Purpose and to provide a in rural area rural development is the Control (b).

and open space land, historic and natural features at the time that such land realizes the development potential currently allowed in the agricultural zoning district. Such clustered development is intended to permit the compact grouping of homes located so as to blend with the existing landscape, such as the rise and fall of the topography, hedgerows and wooded areas, and to preserve to a greater extent the agricultural, forestal and visual character of the landscape.

- Rural Hamlet Permitted. Rural hamlets are permitted in the A-3 and A-(B) 10 districts. The district regulations shall apply to the extent not in conflict with the regulations contained herein.
- A rural hamlet is characterized by the Rural Hamlet Defined. (C) configuration of all or a portion of the density permitted on a tract of land under the district regulations, into a grouping of small residential lots on a portion of the tract. More than one rural hamlet may be located on a tract. A rural hamlet may consist of the following categories of land:
  - Hamlet Lots. Smaller residential lots located in a contiguous (1) group, with adjacent and fronting lots oriented towards each other as on a street, a green or a paved square. No fewer than five (5) and no more than twenty five (25) hamlet lots may be grouped together as a rural hamlet. Hamlet lots shall have a designated building area. All land not designated as building area, private access easements, and road rights-of-way shall be placed in a permanent open space easement.
  - Open Space. Residual land contiguous to a rural hamlet, which is (2) subject to a permanent open space easement.
  - Hamlet Green/Square. Land located in the interior of a rural (3) hamlet, owned in common by hamlet lot owners and which is in a permanent open space easement.
  - Conservancy Lots. A lot, excluding the hamlet lots, open space (4)and/or hamlet green/square, which will remain as large parcel(s), the bulk of which is in permanent open space easement and a portion of which is designated a building area.
- Permitted Uses. The following uses are permitted in the various categories (D) of rural hamlet land. These uses shall supersede the permitted or permissible uses that would otherwise apply in the underlying zoning district.
  - **Building Area of Hamlet and Conservancy Lots.** (1)

- (a) Dwelling, single family detached.
- (b) Bed and breakfast homestay.
- (c) Home occupation.
- (d) Guest house.
- (e) Water supply systems.
- (f) Wastewater disposal systems.
- (g) Accessory uses and structures, as per Section 5-101 of this Ordinance.
- (h) Dwelling unit, accessory.
- Open Space Use. All areas of the tract of land devoted to the Rural Hamlet Option other than the building areas lots and road rights-of-way, shall be subjected to a permanent open space easement. Such open space may be used for the following uses:
  - (a) Agriculture, horticulture, forestry, and fishery uses including barns, stables and other structures accessory or incidental to such uses.
  - (b) Conservation of open land in its natural state, i.e., woodland, fallow fields, grasslands, wetlands, floodplains, and the like.
  - (c) Passive open space or passive recreation, including but not limited to trails, picnic areas, community gardens.
  - (d) Active recreation space, including golf courses.
  - (e) Equestrian uses of any kind.
  - (f) Easements and improvements for drainage, access, sewer or water lines, or other public purposes.
  - (g) Stormwater management facilities for the proposed development or for a larger area in compliance with a watershed stormwater management plan.
  - (h) Water supply systems.

respectively is based on topography, floodplain and availability of septic drainfields. Drainfields shall be submitted to the Loudoun County Health Department for approval in accord with the Land Subdivision and Development Ordinance (LSDO).

(3) For each conservancy lot of fifty (50) acres or greater in size, one (1) additional dwelling unit shall be included in the determination of density.

### (H) Open Space Requirements.

- (1) **Minimum Open Space.** The minimum amount of land in a Rural Hamlet devoted to open space and subject to permanent open space easements shall be no less than eight-five percent (85%) of the total land area in the Rural Hamlet. All land not designated as building areas, private access easements, and rights-of-way for roads shall be permanent open space.
- Minimum Open Space Widths Surrounding the Hamlet. There shall be a minimum of 200 feet width of land in open space between the outside boundary of hamlet lot building areas and the tract boundary. There shall be a minimum of 800 feet between the hamlet lot building area boundaries of two hamlets on the same tract. Reduction of these dimensions may be permitted by the Board of Supervisors (see 5-702(L)), upon recommendation of the Planning Commission, based upon a finding that due to the topography, forestation, or presence of prime agricultural soils or environmentally sensitive areas, such reduction will preserve rural vistas, preserve farmland, screen dwellings from existing roads or adjacent properties, or preserve environmentally sensitive areas.
- (3) Maximum Hamlet Building Area Depth. The outside boundaries of the building areas of hamlet lots facing one another across a street shall not exceed 300 feet. The outside boundaries of the building areas of hamlet lots facing one another across a hamlet green/square shall not exceed 550 feet.

## (I) Utilities and Public Facilities Requirements.

- (1) Water. Hamlet lots shall be served either by:
  - (a) Individual wells on or off each lot, or
  - (b) A communal water system constructed by the developer, or



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- (c) A municipal water system if located within an area designated for such connection in the Comprehensive Plan, or
- (d) Connection with an existing rural village or other public water system.

All water systems shall comply with applicable town, County, State, and/or LCSA standards and requirements, including a commission permit if required by applicable law. As for (a) and (b) above, the Health Department approval of both a safe and adequate water supply system and designated backup well sites based on hydrogeological studies, shall be a precondition to recordation of a record plat establishing a rural hamlet.

- (2) Wastewater. Hamlet lots shall be served either by:
  - (a) Individual septic tank drainfields located on or off the lot, or
  - (b) A communal wastewater treatment system constructed by the developer, or
  - (c) A municipal wastewater system, if located within an area designated for such connection in the Comprehensive Plan; or
  - (d) Connection with an existing rural village or other public wastewater treatment system.

All wastewater systems shall comply with applicable town, County, State, and LCSA standards and requirements, including a commission permit if required by applicable law.

- (3) **Fire Protection.** Every hamlet shall satisfy the fire protection standards set forth in the Facilities Standards Manual, or if no such standards are in effect, shall have all weather access road for a pump truck to an adequate pond with a water withdrawal main or to a water tank of sufficient capacity for fire protection.
- (4) **Roads.** Seven (7) rural hamlet lots or less may be served by a private access easement. Twenty-five (25) rural hamlet lots or less may be served by a VDOT fixed generation, tertiary Class II road. All other roads shall be VDOT Class II roads. All other Rural Hamlet roads shall be built to VDOT secondary road standards.



Roads serving two or more hamlets, with a combined traffic loading exceeding 250 vehicles per day, shall generally have two (2) access points to the existing rural road network.

- The Planning Commission may waive the two (2) access (a) requirement upon finding special topographic or other circumstances which preclude implementation, but may in this eventuality require alternative configurations of road design, such as a divided median.
- Further, the Planning Commission may waive the public road (b) standards, thereby allowing up to twenty-five (25) rural hamlet lots to be served by private access easements, should the Planning Commission find that the waiver provisions contained in this section are met. This alternative roadway design option must be requested as part of the subdivision application, and shall not be granted for the sole purpose of circumventing the previously referenced public roadway In reviewing any proposed waiver, the design criteria. Planning Commission shall consider the following:
  - Whether granting of the proposed waiver will (i) adequately provide for access by public safety service (police, fire and rescue services).
  - Whether granting of the proposed waiver will protect (ii) to the greatest extent possible topographic or physical, natural, scenic, archaeological or historical features of significant importance.
  - Whether the granting of the proposed waiver will be (iii) in the public's best interest, specifically with regard to future road maintenance considerations.
  - Whether the granting of the proposed waiver will (iv) meet engineering standards with regard to steep slopes, storm water control, drainage, soil erosion control; mitigate floodplain impacts; assure adequate dust control measures; and will minimize, to the greatest extent possible, the impact on water and air quality on adjoining properties.
  - Whether the granting of the proposed waiver will (v) facilitate orderly and safe road development.

- (vi) Whether the granting of the proposed waiver will minimize the impact of traffic on the existing roadway network.
- (vii) Waiver requests shall be considered by the Planning Commission at a public meeting held within sixty (60) days of receipt of such request.
- (5) **Parking.** Every hamlet lot shall include sufficient parking (which may or may not be paved) to accommodate four (4) cars.

#### (J) Home Owner's Association.

- (1) Each rural hamlet or group of rural hamlets comprising a common development shall have an incorporated Home Owner's Association ("HOA") which shall have the right and responsibility to maintain the following areas and improvements:
  - (a) Common open space.
  - (b) Private roads, if any, within or serving the rural hamlet.
  - (c) Any stormwater management ponds or areas,
  - (d) Fire protection pond, dry mains, or other improvements; and
  - (e) Such other common facilities or improvements as may be designated in the HOA Bylaws.
- (2) Easements for septic drainfields and wells located off of the lot shall be established at the time of the record plat for such lot, and shall run to the benefit of the lot served. The responsibility for maintaining or replacing such septic fields or wells shall be borne by the lot owner served by such easement.
- (3) The permanent open space easement required in the rural hamlet shall be enforced by the County. Such easement shall be in a form approved by the County, and shall provide that, notwithstanding such easement, the eased portion of conservancy lots or hamlet lots shall be maintained by the owners of such lots, and that the County should bear no responsibility or liability for such maintenance. However, nothing contained herein shall prevent such landowners from leasing such open space for agricultural or other purposes as allowed in Section 5-702(D)(2) Open Space Use.



- (4) The Home Owner's Association documents shall be submitted as part of the initial record plat application and shall provide for adequate initial funding and assessments to fund the maintenance of common property and improvements.
- (K) Plat and Deed Notations. Record plats and deeds for rural hamlet subdivisions shall include a statement that agricultural operations enjoy the protection of the Right to Farm Act, Va. Code Section 3.1-22.28 et seq.

#### (L) Modification of Regulations.

- (1) Where there are conflicts between the rural hamlet provisions herein and the general zoning, subdivision or other regulations and requirements, the rural hamlet regulations shall apply.
- (2) In addition, the Board of Supervisors may allow reasonable modifications to other applicable regulations as follows:
  - (a) These other regulations serve public purposes to a lesser degree than the rural hamlet, or
  - (b) The designs or solutions proposed by the applicant, although not literally in accord with these other regulations, satisfy public purposes to a greater degree, or
  - (c) The strict implementation of these other regulations would prevent well designed rural hamlet development.

Such modifications may be granted by the Board of Supervisors by special exception. Such modifications may be sought prior to filing a preliminary plan of subdivision. The landowner shall include a sketch plan of the proposed hamlet as part of the application for modification and shall demonstrate the reasons for the request.

- (M) Advisory Rural Hamlet Siting and Design Guidelines. Loudoun County recognizes that every rural hamlet design will be a custom response to the unique assets and constraints of each tract. As a consequence, the County has only incorporated in the Rural Hamlet Ordinance those siting and design rules required to preserve open space and to allow the clustering of dwellings. However, the County does wish to encourage design consistent with Loudoun's past in rural Loudoun and appends the following general design guidelines as a suggestion to rural hamlet designers.
  - (1) **Siting.** Rural hamlets should be sited so as to nestle, or blend in a subordinate way, into the existing landscape. Rural hamlets should



not be placed on the crest of a ridge but rather should be located in a dip or depression or on the side of a hill.

- Landscaping. Rural hamlet designs should incorporate a mix of evergreen trees, generally located to the north and west for winter wind protection, and deciduous trees, located to the west and south, for summer shade. Given the time required for trees to attain maturity, existing stands of trees and hedgerows should be incorporated in the new hamlets whenever possible. New plantings of evergreen and deciduous trees should be native to the northern Piedmont, such as yellow poplar, northern red and white oak, hickory, white ash, black gum, hemlock, spruce and eastern red cedar among others.
- (3) Ground Modeling and Screening. In those circumstances where natural contours, subsurface conditions and tract boundaries prevent discreet hamlet placement, hamlet designers should seek to reduce the development's apparent presence by locating earth berms near adjacent roadways and/or planting screens of trees adjacent to existing roads and tract boundaries.
- (4) **Grouping of Structures**. Dwellings in rural hamlets should be placed in proximity to one another and to common wells or facilities.

### Illustration of Hamlet Lot and Building Area

Hamlet I (min. 1/I

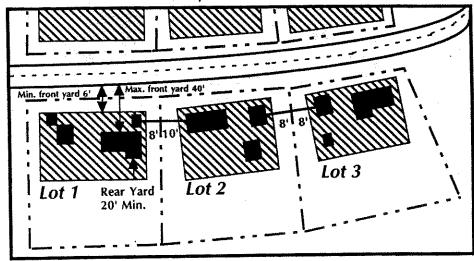
Hamlet Building Area (min. 1/6 ac. max.1/4 acre)

Structure located on Hamlet Lot Building Area

Hamlet Lot
Eased Open Space

NOTE: For Illustrative Purposes only-

Refer to Ordinance Text for Requirements



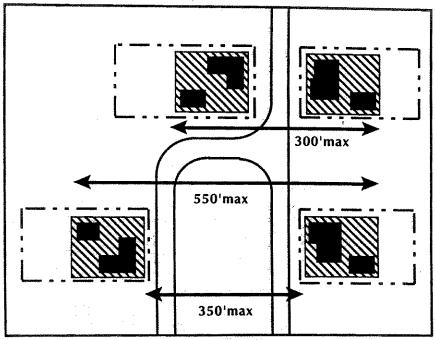
Minimum lot size 10,000 sq. ft.

Section 5-700 Revision Date: June 17, 1998 Loudoun County Zoning Ordinance

# **Example of Maximum Widths in Rural Hamlets**

NOTE: For Illustrative Purposes only-

Refer to Ordinance Text for Requirements



Section 5-700 Revision Date: June 17, 1998 Loudoun County Zoning Ordinance

# **Example of Hamlet Calculations and Ratios**

# Figure 1. Hamlet Example Summary

88 ac. / 20 Hamlet and 2 Conservancy lots

90.34% All eased land

NOTE: For Illustrative Purposes only-

> Section 5-700 Revision Date: June 17, 1998 Loudoun County Zoning Ordinance

> > **A&13**July 18, 2006

#### **Example of Hamlet Calculations and Ratios**

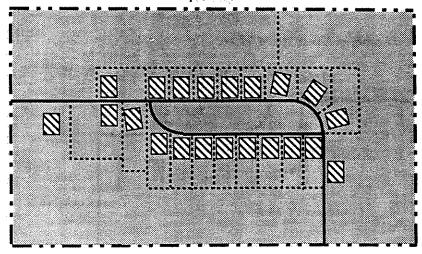
Figure 2. Illustrations of Eased Land and Building Areas in Hamlet

Eased area of Conservancy
and Hamlet Lots and Common Open Space

Designated Building Areas

NOTE: For Illustrative Purposes only-

Refer to Ordinance Text for Requirements



Section 5-700 Revision Date: June 17, 1998 Loudoun County Zoning Ordinance



1	5-703 Agricultural Rural (AR) District Cluster Option.
2 3 4 5 6 7	(A) Purpose. The purpose of the Agricultural Rural (AR) District Cluster Option is to provide for residential single family detached development in the AR 1 and AR 2 districts that addresses conservation design standards, accommodates rural economy uses and ensures the form and character of residential development is consistent with the open character of the rural economy uses.
8 9 10	(B) General Requirements. The requirements established in the following sections set forth the general and specific standards for development under the AR District Cluster Option.
11	(1) General. A landowner may exercise the residential cluster option:
12 13	(a) In the AR-1 district: on a site consisting of a minimum of 30 contiguous acres.
14 15	(b) In the AR 2 district: on a site consisting of a minimum of 60 contiguous acres.
16 17	For the purposes of this section, contiguous land ownership is not broken by a road or a public or private right of way or easement.
18 19 20 21 22	(2) Density/Clustering. Under this AR cluster option, the residential development on the site shall be clustered according to the provisions of this section, and the maximum number of lots shall be:
23	(a) AR 1 district: 1 lot per 10 acres, including the Rural Economy Conservation Lands lot.
24 25 26	(b) AR 2 district: 1 lot per 20 acres, including the Rural Economy Conservation Lands lot.
27 28	Accessory dwelling units and guest houses shall not be counted as dwelling units in the density calculation.
29 30 31 32 33	(3) Rural Economy Conservation Lands. A minimum percentage of the site shall consist of Rural Economy Conservation Lands, subject to a conservation easement precluding further subdivision, as follows:
34	(a) AR 1 district: 70 percent.
35 36	(b) AR 2 district: 85 percent.
37 38	(C) Residential Cluster and Rural Economy Conservation Lands Standards. The two elements of the residential cluster option are (1) the

1 2 3 4 5 6	The site layer preliminary p planning req (Conservation Rural Econo	out of dat for uired 1 n Design	nd (2) the Rural Economy Conservation Lands lot. these elements shall occur during the review of a subdivision, simultaneously with the analysis and site to be undertaken to comply with Section 6 2000 cm). Development of the residential cluster and the onservation Lands shall comply with the following
7	<del>standards.</del>		
8 9 10	comp	ly-with	Clusters. Clusters and lots within clusters shall the following standards, except as exempted by $3(C)(1)(e)$ .
11 12 13	(a)	consi	ber of Lots in Cluster(s). Residential cluster(s) shall st of a minimum of 5 lots and a maximum of 25 lots, of that a cluster may consist of fewer than 5 lots if:
14 15		(i)	There will be fewer than 5 lots on the entire site that is to be developed under the cluster option;
16 17		(ii)	In the AR 1 district, the area of the site is less than 50 acres; or
18 19 20 21		(iii)	It is demonstrated that a cluster of fewer than 5 lots will result in greater amounts of contiguous Rural Economy Conservation Lands or result in less denigration of primary conservation areas.
22 23 24 25 26	(b)	wher singl num	the total number of lots on a site is greater than 25. A e cluster shall contain all the lots where the total ber of lots on a site is 25 or fewer, except that multiple ers may be allowed where:
27 28 29 30		(i)	It is demonstrated that multiple clusters will result in greater amounts of contiguous Rural Economy Conservation Lands or result in less denigration of primary conservation areas; and
31 32 33		(ii)	None of the clusters contains fewer than 5 lots, unless allowed as provided in Section 5 703(C)(1)(a) above.
34	(c)	Dim	ensional Standards of Lots Within Cluster(s).
35 36 37 38	` '	(i)	The area of any individual residential cluster lot shall not exceed 3 acres, except common open space owned by an HOA may exceed the 3 acre maximum lot size.
39 40		(ii)	There is no minimum lot size for a residential lot in the cluster(s).

- (iii) Residential structures within the cluster shall be set back a minimum of 100 feet from any lot line adjoining an agricultural, horticultural, or animal husbandry use.
- (iv) The residential cluster lots shall be located in a contiguous group, with adjacent and fronting lots oriented towards each other as on a street or along a common area.
- (d) One Dwelling Unit on a Lot. The only principal use on each residential cluster lot, except the Rural Economy Conservation Lands lot, shall be one single family detached dwelling unit, and any accessory uses (including communal systems) allowed for the single family detached unit under this Ordinance.
- (e) HOA Common Area. In addition to the number of lots permitted above, a common open space area owned by an HOA may be provided within the DDA, created pursuant to Section 6 2000.
- (2) Rural Economy Conservation Lands Lot. The required percentage of Rural Economy Conservation Lands on the site shall include primary conservation area lands and other lands, as may be necessary to meet the required percentage. The Rural Economy Conservation Lands shall be designed to be contiguous, and shall be included within one lot. Such lot shall be counted against the maximum number of lots permitted.
  - (a) Allowed Uses on Rural Economy Conservation Lands.
    The following uses are allowed on the Rural Economy
    Conservation Lands:
    - (i) The uses allowed on primary conservation area lands on the Rural Economy Conservation Lands are limited to those uses and activities for the respective protected area allowed in the environmental overlay districts or steep slope standards pursuant to Section 4 1600 (MDOD), Section 4 1900 (LOD), Section 4 1500 (FOD) 2000 (RSCOD) and Section 5 1508 (Steep Slope Standards).
    - (ii) The uses allowed on the other Rural Economy Conservation Lands are limited to those uses specified below which are subject to the Additional Regulations for Specific Uses in Section 5 600:



1 2 3 4 5 6	1. One single family detached unit (including accessory uses such as an accessory apartment) is permitted, in association with on going agricultural uses. It shall be calculated as part of the density allowed on the site under the cluster option.
7	2. Permitted Agriculture, Horticulture and Animal Husbandry Uses.
9 10 11	3. Permitted Agriculture Support and Services uses related to Agricultural, Horticulture and Animal Husbandry.
12 13	4. Permitted Group Living uses (except co- housing and rooming houses).
14 15	5. Permitted Conference and Training Center uses.
16 17	6. Agricultural Cultural Center and Fairgrounds uses.
18	7. Permitted Commercial Uses.
19 20 21 22 23	8. Uses and structures accessory to those uses allowed to be developed on Rural Economy Conservation—Lands—pursuant—to—this subsection, consistent with the limitations of the accessory use standards.
24	9. Easements and improvements for drainage.
	10. Passive open space.
25 26 27	11. Communal sewer systems and septic systems.
28 29	12. Communal water supply systems, wells, and other water supply systems.
30 31 32 33	13. HOA structure(s) if the Rural Economy  Conservation Land is owned as common open space by the HOA.
34	(3) Cluster Development Relationships.
35 36 37 38 39 40	Visual Compatibility. The lots and buildings of the residential cluster(s) shall be sited so as to reduce visibility of the cluster(s) from public rights of way and from other cluster(s), by using existing topography, vegetation, distance and other factors to minimize impact. Options include siting lots and buildings sufficiently below

1	ridgelines or treelines that the horizon will remain visually
2	defined by the ridgeline or treeline rather than by the
3	rooftops of the cluster, or placing lots and buildings at the
4	far edge of a field or pasture as seen from a public right of
5	way or other cluster so that the view remains defined by an
6	open and rural character.
7	(b) Contiguity of Rural Economy Conservation Lands. The
8	Rural Economy Conservation Lands lot shall be designed
9	to maximize, to the extent feasible, the contiguity of such
10	lands with other Rural Economy Conservation Lands off
11	<del>site.</del>
12	
13	(D) Utility Requirements.
1.5	
14	(1) Water. Residential lots may be served with individual wells or by
15	communal water supply systems. Such wells and water supply
16	systems or their components may be located on or off the
17	individual lot, and may be located within the Rural Economy
18	Conservation Lands consistent with the standards of this section
19	and Section 6 2005.
10	
20	(2) Wastewater. Residential lots may be served by communal sewer
21	systems or by septic systems. Such systems and their components
22	may be located on or off the individual lot, and may be located
23	within the Rural Economy Conservation Lands consistent with the
24	standards of this section and Section 6 2005.
25	(E) Fire Protection. The residential cluster shall satisfy the fire protection
26	standards set forth in the Facilities Standards Manual, or if no such
27	standards are in effect, shall have an all weather access road for a pump
28	truck to an adequate pond with a water withdrawal main or to a water tank
29	of sufficient capacity for fire protection as determined by the Director of
30	Building and Development.
	The state of the s
31	(F) Roads. The residential cluster lots may be served by a private access
32	easement with gravel road surfaces that comply with standards contained
33	in the Facilities Standards Manual.
2.4	(G) Ownership and Maintenance of Rural Economy Conservation Lands.
34	The primary conservation areas and other lands on the Rural Economy
35	Conservation Lands shall be owned and maintained in accordance with the
36	provisions of Section 6-2008.
37	<del>provisions of section o 2000.</del>

yeonet	<del>(H)</del>	Homeowner	s' Association and Responsibilities.
2 3 4 5 6		Associmpro HOA	cluster development shall have an incorporated Homeowners' ciation ("HOA") if any of the following areas or exements are present within the cluster development. The shall have the right and responsibility to maintain the areas provements.
7 8		(a)	Common areas within the cluster, if any, that are not part of the required Rural Economy Conservation Lands;
9 10		(b)	The Rural Economy Conservation Lands, if owned by the HOA;
11 12		(c)	Private roads, if any, within or serving the cluster development;
13		(d)	Any stormwater management ponds or areas;
14		(e)	Fire protection pond(s), dry mains, or other improvements;
15 16		(f)	Such other common facilities or improvements as may be designated in the bylaws of the HOA.
17 18		(2) Prior	to approval of a record plat for subdivision for the cluster:
19 20 21 22 23 24 25		(a)	The landowner shall submit documents for the creation of the HOA to the County for review and approval, including its bylaws, and all documents governing ownership, maintenance, and use restrictions for common areas, including a legal description of such areas and a description of restrictions placed upon the use and enjoyment of the land.
26 27 28 29 30		(b)	The landowner shall agree that the association shall be established by the landowner or applicant and shall be operating (with financial subsidization by the owner or applicant, if necessary) before approval of first record plat for the property; and
31 32 33		(c)	Membership in the association shall be automatic (mandatory) for all purchasers of dwelling units therein and their successors in title.
34	<del>(I)</del>	Recognizino	Protection by Right to Farm Act. Record plats and deeds
35 36	(1)	authorized	pursuant to this section shall include a statement that
37		agricultural (	operations enjoy the protection of the Right to Farm Act (Va.
38		Code Section	n 3.1 22.28 et seq.) on the Rural Economy Conservation
39		Lands.	1/



# 5-704 Common Open Space for Permitted Urban Clusters as permitted in various sections contained in Article III and Article IV of this Zoning Ordinance.

- (A) Common open space shall be designed to constitute a contiguous and cohesive unit of land which may be used for active or passive recreation by residents.
- (B) Common open space shall be accessible to all permitted uses and all residential units within the subject development and shall be located within a reasonable walking distance of such units.
- (C) All common open space shall be permanently reserved, managed, and maintained as open space by a means acceptable to the Board of Supervisors, and at no cost to the County.
- (D) No major floodplain shall be included in calculating the amount of common open space required.

SECTION 5-1204(D) - SIGN REQUIREMENTS MATRIX

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	IsnoitibbA stnəməriupəR	-	One sided only,	signs shall contain no	advertising.	Minimum 1000 FT	between signs on	same side of road or	at intersection; signs	shall contain no	advertising.	One sided	only; signs shall	contain no advertising.	Signs shall be	separated by a	minimum half-mile	radius, signs shall	contain no advertising.				******		***************************************
	Max. Height (See Note 3)		5FT			8 FT						5 FT			8 FT						8 FT				
	betrimited eqyT		Ground	Mounted		Ground	Mounted					Ground	Mounted		Ground	Mounted					Freestanding	As	Permitted in	Section 5-	1202(A)(3)
	Min. Setback From R.O.W. (See Note 2)	100 100 100 100 100 100 100 100 100 100	10 FT			5 FT						10 FT			5 FT						5 FT	0 FT			
	noitsnimulll Permitted		Backlight or	White Light		Backlight or	White Light					None			Backlight or	White Light					None				
unted tructure	Max. Height of Background Structure		5 FT									5 FT													
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Ground Mounted Sign	Max. Area of ngiS ənO ynA																								
Ground	Bonus Multiplier								· · · · · · · · · · · · · · · · · · ·							*****									
	fo serA .xsM Any One Sign		60 SF			20 SF						10 SF			20 SF						20 SF				
	Nax. Number of Signs	IGNS	2/ vehicular	entrance								1/	community		1/development	of 2500 or fewer	dwellings-	2/developments	of over 2500	dwellings	2/Farm			-	
	ejsgeregate serA ngi <i>2</i>	<b>ICULTURES</b>		***************************************		20 SF						10 SF			20 SF						40 SF				
	LAND USE/ SIGN CATEGORY (or similar) (See Note 6)	(1) RESIDENTIAL/AGRICULTURE SIGNS	(a) PD-H and PD-AAAR	Entrance Signs		(b) PD-H - Community	Directional Signs -	On-site or Off-site	(within boundaries of	approved PD-H district)		(c) Non PD-H Residential	Communities - Entrance	Signs	(d) HOA Activity Signs						(e) Farm Signs				



July 18, 2006

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PAGE 2		IsnoitibhA Efremente	Diopland when	agricultural produce and livestock are available for sale on farm involved and shall be removed within 48 hours after sale is concluded. Off-site signs require written permission of the owner of the land on which it is displayed.			Signs shall contain no advertising.
		Max. Height (See Note 3)	t		8 FT		4 8 F F
		Type Permitted		Freestanding Building Mounted	Freestanding Building Mounted	Freestanding Building Mounted	Freestanding Building Mounted As Permitted in Section 5- 1202(A)(3)
		Min. Setback From R.O.W. (See Note 2)		L C	5 FT	5 F.I	None
		noitsnimulll bettimneq		None	None	None	None
	mted ructure	Max. Height of Background Structure					
* *	Ground Mounted Background Structure	Max. Area of Background Structure					
**DRAFT**	Back Back	eunoa Multiplier (See (L etoM					
O**	Mounted	Max. Area of Any One Sign					
RIX	Ground Mounted Sign	Bonus Multiplier					
ENTS MAT		ho serA .xeM ngi2 enO ynA	(pa)	12 SF on-site 4 SF off-site One on-site sign at 20 SF if setback ≥ 40 FI from the fronting ROW	2 SF	2 SF	C) T T
REQUIREME		Max. Number of Signs	IGNS (Continu	6, includes up to 3 on-site signs and up to 4 off- site directional signs	1/lot	1/lot	Tivehicular access, 2 for each dwelling lot or property
(D) - SIGN		Fotal Aggregate	CULTURES		2 SF	2 SF	
SECTION 5-1204(D) - SIGN REQUIREMENTS MAT		LAND USE/ SIGN CATEGORY (or similar) (See Note 6)	(1) RESIDENTIAL/AGRICULTURE SIGNS (Continued)	(f) Wayside Stands, Including Christmas Tree Sales, Vineyards, Wineries	(g) Home Occupation	(h) Childcare Home	(i) Residential Name Signs

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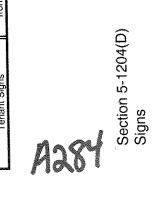
July 18, 2006

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LAND USE/ SIGN CATEGORY (or similar) (See Note 6) (See Note 6) (2) PUBLIC/QUASI PUBLIC SIGNS (a) Public or Quasi-Public (b) Public or Quasi-Public (c) Public or Quasi-Public (d) Public or Quasi-Public (e) SF	onber of		Sign	<b>c</b>	Backg	Background Structure	tructure					
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GINS		Max. Area of ngi2 anO ynA	Bonus Multiplier	Max. Area of Any One Sign sunoa	Multiplier (See <u>Note 1)</u>	Max. Area of Background Structure	Max. Height of Background Structure	noitanimulll bettimreq	Min. Setback From R.O.W. (See Note 2)	Type Permitted	Max. Height (See Note 3)	IsnoifibbA sfnemeriupeR
SF	N										433	
	1/ use	6 SF	1.5	9 SF	2	18 SF	F 4	None	10 FT	Freestanding	4 F	Must be located within 100 FT from
												use or structure it
												identifies; signs shall contain no advertising.
		1000	11	30.00	٠	60 SF	4 FT	Backlight or	10 FT	Freestanding	8 FT	Signs shall contain no
20 SF	1/ use	Z0 0Z	ű	Š S	<b>J</b>	5		White Light	···	Building	1	Roofline advertising.
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2000	0	10.SF			1.5	15 SF	8 FT	Backlight	5 FT	Freestanding		Signs shall contain no
	i	) )								Building	Roofline	Roofline advertising.
										Mounted		
1		45 SE						Backlight or	5 FT	Freestanding	8 FT	
i o		) )						White Light		Building		
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											- L	
2	4 t h. (a.)	1000	1 5	30.SF	1.5	45 SF	8 FT	Backlight	10 FT	Freestanding	15FT	
 ₩	1/venicular	20.02	?	; }	!			or White Ligh	-			
	entrance,											
	no more than											
	2 signs							00007500		Bailding	Roofline	
2 SF/	1/facade,	60 SF						nachiigiri Ar White Light	<del></del>	Mounted		
linear foot of	no more than								-			
building	3 signs											
frontage												



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SECTION 5-1204(D) - SIGN REQUIREMENTS MATRIX

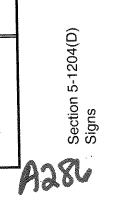
30 Sr Area of Sr Area of Sr Any One Sign					Ground Mounted Sian	ounted	Grot Backgr	Ground Mounted Background Structure	nted ructure					
SESIGNS (Confined)	LAND USE/ SIGN CATEGORY (or similar) (See Note 6)	esta Aggregate setA ngi2		Max. Area of Any One Sign	Multiplier	Max. Area of ngiS ənO ynA		Background Structure	Max. Height of Background Structure	1	.W.O.R mo1극	Type Permitted	8	(;
## 15 SSF   1/vehicular   20 SF   1.5   30 SF   1.5   45 SF   8 FT   Backlight   10 FT   Pressuration or more than   3 signs   1.25   1.25   1.33   100 SF   1.35   100 SF   1.45 SF   1.35   100 SF   1.45 SF	IS) COMMERCIAL/OFF	CE SIGNS (C	ontinued)										- <u>-</u>	
2 SF7	(c) (PD-CC(CC))	60 SF	1/vehicular	20 SF	1.5	30 SF	1.5	45 SF	# F	Backlight	-	Freestanding	<u>.</u>	
2 SFT	Planned Development		entrance,							or write Ligh				
2.SF/ 1/flacade, 60 SF	Community Center -		no more than											
2 SF/ 1/lacade, 60 SF Building I building I linear foot of no more than building a 3 signs from the land and	Entrance Signs and		3 signs											
1	Entrance Signs for													
2 SF/	Commercial Developments					···								
1.0   1.1   1.1   1.2   1.2   1.2   1.2   1.3   1.0   1.2   1.3   1.0   1.3   1.3   1.0   1.3   1.3   1.0   1.3	in PD-TC, PD-TT, PD-UC													
1/1   1/1	PD-TRC, PD-TREC													
Freedow	PD-RV and PD-CV Districts									Backlight		Building	Roofline	
Fronting   3 signs	(d) (PD-CC(CC))	2 SF/	1/facade,	50 ST						or White Ligh	+	Mounted		
Frontage, not to exceed 60 SF    1.25	Planned Development	linear foot of	no more than											
frontage, not to exceed 60 SF    1.25	Community Center -	puilding	3 signs											
exceed 60 SF	Tenant Signs and Tenant	frontage, not to												
1/vehicular   60 SF   1.25   75 SF   1.33   100 SF   1.5 FT   Backlight   10 FT   Freestanding   1 centers   1.25   2 (for   120 SF   1.33   160 SF   1.33   160 SF   1.5   2 (for   120 SF   1.33   160 SF   1.5   45 SF   8 FT   Backlight   10 FT   Freestanding   Building   10 FT   Freestanding   1 centers   1/facade,	Signs for Business in PD-TC	exceed 60 SF								·				
## 1.25 F F F F F F F F F F F F F F F F F F F	PD-TT, PD-UC, PD-TREC													
## 1.25 F F F F Backlight	PD-TRC, PD-RV, PD-CV													
## Figure 120 SF	Districts		4 / (-15) 0 0	30.08	1 25	75 SF	1.33	100 SF	15 FT	Backlight	10 FT	Freestanding		
60 SF 1/facade, 20 SF 1.5 45 SF 8 FT Backlight 10 FT Freestanding Building Mounted	(e) (PD-CC (SC) &(HC))		I/verification	3	2 (for	120 SF	1.33	160 SF		or White Lig	ŧ			
60 SF 1/facade, 20 SF 1.5 30 SF 1.5 45 SF 8 FT Backlight 10 FT Freestanding Building Abounted	Planned Development		enirance		oretoco									
60 SF 1/facade, 20 SF 1.5 45 SF 8 FT Backlight 10 FT Freestanding no more than 3 signs -	Small Regional Center and				over 1									
60 SF 1/facade, 20 SF 1.5 30 SF 1.5 45 SF 8 FT Backlight 10 FT Freestanding Building 3 signs -	Regional Center -				- 6				.,					
60 SF 1/facade, 20 SF 1.5 30 SF 1.5 45 SF 8 FT Backlight 10 FT Freestanding no more than 3 signs	Entrance Signs													Control of the Contro
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3 signs	(f) (PD-CC(SC) & (RC))	60 SF	1/facade,	20 SF	ū.	5	?	i 2				Building	Roofline	
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Pegional Center -Tenant Signs (Freestanding Building with.up to 4000 SF floor area)	Small Regional Center and		3 signs	****	<u>.</u>									
Signs (Freestanding Building with.up to 4000 SF floor area)	Regional Center -Tenant			,										
with up to 4000 SF floor area)	Signs (Freestanding Building									•				
	with up to 4000 SF floor area,													

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	1	V	2000 2000 2000 2000 2000 2000 2000 200										
(3) COMMERCIAL OFFICE SIGNS (COMMINGED )	120 SF	1/facade.	20 SF	1.5	30 SF	1.5	45 SF	8 FT	Backlight	10 FT	Freestanding	15 FT	
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Regional Center-Tenant		)	building								Mounted		
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with over 4000 SF floor area)									t de la		Building	Boofline	A CONTRACTOR OF THE PROPERTY O
(h) (PD-CC(SC) & (RC))	60 SF	1/public entrance	30 SF						Dackilgin		Mounted	2	
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Regional Center-Tenant													## <b>***</b> ********************************
Signs (In Line Structure													
with up to 4000 SF floor area)									Backlight		Building	Roofline	
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Planned Development		of building			,								
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(In Line Structure with over													
15000 SF floor area)			10.00			•	120 SF	5FT	Backlight or	10FT	Ground	T 5 FT	One sided only; signs
(k) PD-OP and PD-RDP		2/vehicular	- 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00			1			White Light		Mounted		shall contain no
Development Entrance Signs	<b>(</b> )	entrance						**********	1				advertising.
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ESIGNS (Continued)  60 SF 1/vehicular 20 SF 1.5 entrance 40 SF  160 SF 1/facade 50 SF  200 SF 1/facade 60 SF					ıgi2 ənO ynA	eonoa Multiplier (Se LatoM Ces Ares of	Max. Area of Background Structure	Max. Height o Background Structure	noitanimulll Permitted	Min. Setbaci W.O.R mora (See Note S	Type Permitt	Max. Heigh (See Note 3	IsnoitibbA nəməriupəЯ
60 SF 1/recade 40 SF 1.5  200 SF 1/facade 50 SF 240 SF 1/facade 60 SF	T TOTAL NICE	Continued		2000 2000 2000 2000 2000 2000 2000 200						33.5			
160 SF 1/facade 4 200 SF 1/facade 1 240 SF 1/facade 1	sestanding 60 SF	1/vehicular	20 SF	1,5	30 SF	1.5	45 SF	8 F.T	Backlight or	10 FT	Freestanding	  	
160 SF 1/facade 200 SF 1/facade 1/facade 240 SF 1/facade	ance Sign	entrance							wnite Light				
200 SF 1/facade 1/fac			LO						Backlight		Building	Roofline	Roofline Sign must be located
200 SF 1/facade		1/facade	40 SF								Mounted		at the top floor of
200 SF 1/facade	vies)												building, otherwise
200 SF 1/facade													max. area of sign is
200 SF 1/facade													20 SF. Name and
200 SF 1/facade													message of signs on
200 SF 1/facade													each façade must be
200 SF 1/facade 240 SF 1/facade													the same.
200 SF 1/facade									Backlight		Building	Roofline	Roofline Sign must be located
240 SF 1/facade			50 SF						,		Mounted		at top floor of building,
240 SF 1/facade	ories)												otherwise max. area
240 SF 1/facade													of sign is 20 SF. Name
240 SF 1/facade			,										and message of signs
240 SF 1/facade										,,			on each façade must
ID Sign 240 SF 1/facade	<del></del>												be the same.
240 SF 1/facade									Backlight		Building	Rooflin	Roofline Sign must be located
(6 + stories)			60 SF								Mounted	.,	at top floor of building.
	lories)												otherwise max. area
													of sign is 20 SF. Name
	<del></del>												and message of signs
													on each façade must
	<del></del>			<del></del>						<u>.</u>			be the same.

Section 5-1204(D)
Signs

SECTION 5-1204(D) - SIGN REQUIREMENTS MATRIX

SIGN CATEGORY (See Note 5) (Or similar) (See Note 5) (Or similar) (See Note 5) (Or similar) (See Note 5) (See Note 6) (See					Ground Mounted Sign	founted In	Gro Backg	Ground Mounted Background Structure	unted tructure					
20 SF Mounted Mounted Mounted	E/ 30RY m) (6)			Max. Area of ng Sign	II.	ngi2 ən0 ynA	998) neilipituM (t. atoM	Background	Background		-W.O.Я mor∃	Type Permitted		<b>1</b> -
20 SF	IAI /OFFIC	CE SIGNS (C	ontinued)									-		COCCATANA TOUR LANGUAGE
Fundamental building		2 SF per linear	1/tenant	20 SF						Backlight		Sulding:		Cocated Over entrance
Frontisge		foot of building		•								Mounted		dortifies
Counts against         Counts	loor)	frontage												As ht of letters 24
10 SF   20 SF   1.5   30 SF   1.5   45 SF   8 FT   Backlight   5 FT   Freestanding   15 FT   Backlight   10 FT   10		(counts against		-										achos
1D Sign   1D S		overall building												ECIES.
Franchische		(ubis QI												May not be visible
60 SF         6         20 SF         1.5         30 SF         1.5         45 SF         8 FT         Backlight of Mounted and	irectories													rom outside
60 SF         60 SF         60 SF         60 SF         60 SF         1.5         30 SF         1.5         45 SF         8 FT         Backlight Backlight Building Build														he building.
Building				70.00	ι4 Τ	30 SE	1.5	45 SF	8 FT	Backlight	SFT	Freestanding	15 FT	Total sign area
20-120 SF   6	ce Station	- S 09	φ	P. 02	j.	5	?	2	•	)		Building	Roofline	excludes federally
20-120 SF         6         20 SF         1.5         30 SF         1.5         45 SF         8 Ft         Backlight         10 FT         Freestanding         15 Processing Serior 20 SF           (see additional requirements column)         20.120 SF         4 SF         8 Ft         Backlight         10 FT         Freestanding         15 FT         Backlight SF         10 FT         Freestanding         6 FT         Backlight SF         10 FT         Freestanding         6 FT         Backlight SF         10 FT         Freestanding         6 FT         Backlight SF         Building         6 FT         Backlight SF         10 FT         Building         6 FT         Backlight SF         Building         6 FT         Building         6 FT         Backlight SF         Building         6 FT         Buildin	venience		_ <del></del>									Mounted		mandated gasoline
20-120 SF         6         20 SF         1.5         30 SF         1.5         45 SF         8 Ft         Backlight         10 FT         Freestanding         15 FT         Base sign 20 SF           (see additional requirements         requirements         Mounted         Building         Roofline         Each new car dealership = 20           column)         4 SF         2         4 SF         Freestanding         6 FT         Acalership = 20           4 SF         2         4 SF         Mounted         Building         Roofline         Freestanding         6 FT           4 SF         2         10 SF         Amounted         Mounted         Freestanding         6 FT           4 SF         2         10 SF         Mounted         Freestanding         6 FT           4 SF         2         10 SF         Mounted         Freestanding         6 FT           Amounted         Mounted         Mounted         Freestanding         6 FT         Freestanding           Amounted         Mounted         Historic         Historic         Historic         Historic	h & repair)													price posting.
See additional				1000	+ 14	30 SE	1.5	45 SF	8 Ft	Backlight	10 FT	Freestanding	15 FT	Base sign 20 SF
(see additional subjectional requirements         Building         Rouliding         Rouliding         For Building         Backlight         S FT         Freestanding         Each new car leadership = 20           column)         4 SF         Abuilding         6 FT         Abuilding         6 FT         Abuilding         6 FT           10 SF         2         10 SF         Abuilding         6 FT         Abuilding         6 FT         Abuilding         6 FT           Mounted in Historic         Abuilding         6 FT         Abuilding         Abuilding         6 FT         Abuilding         Abuil	Dealer	20-120 SF	φ	75 OZ	<u>.</u>	5	2	2		)				Used car 20 SF
requirements         Mounted browning and column)         Accolumn browning and column browning and colum		(see additional										Building	Roofline	Each new car
column)         2         4 SF         .         Backlight         5 FT         Freestanding           10 SF         2         10 SF         Mounted in Historic		requirements										Mounted		윘
4 SF 2 4 SF Building Or White Light Building Mounted Mounted in Historic Physical Only Physical Collins Phys		COULINI		30 8			Ľ			Backlight	SFT	Freestanding		
10 SF 2 10 SF Mounted Mounted in Historic Only	sakfast Inn	Δ ΤΩ	N	ļ						or White Ligh		Building	Roofline	
10 SF 2 10 SF None Freestanding White Light Building Mounted in Historic Only	estay											Mounted		
White Light		Loop		10.01						Backlight or	None	Freestanding		
	Guest Farm	15 OL	N	5						White Light		Building	·····	
	al Retreat,		··········									Mounted in		
	ort, and											Historic		
	cultural											District Only		

July 18, 2006

Section 5-1204(D) Signs

SECTION 5-1204(D) - SIGN REQUIREMENTS MATRIX

PAGE 8

				Ground Mounted Sian	ounted	Gro Backe	Ground Mounted Background Structure	nted ructure					
LAND USE/ SIGN CATEGORY (or similar) (See Note 6)	esar Angicedate	Nax. Number of Signs	Max. Area of Any One Sign	Bonus Multiplier	Max. Area of Any One Sign	sonus Multiplier (See (LatoM	Max. Area of Background Structure	Max. Height of Background Structure	llumination Permitted	Min. Setback From R.O.W. (See Note 2)	Type Permitted	Max, Height (See Note 3)	IsnoitibbA StnemeniupeA
(3) COMMERCIAL/OFFICE SIGNS (Continued)	ICE SIGNS (C	Continued)											
(v) Child Care Center	20 SF	2	10 SF			<u>r</u> .	15 SF	6 FT	Backlight, None in	<u>+</u>	Freestanding	_ ×	obernit/Wm
									Residential	<u> </u>	Building	Roofline	and the second
									Districts		Mounted	_li_	
(w) Hotel, Motel and		1/vehicular	20 SF	1.5	30 SF	1,5	45 SF	8 F-I	Backlight	10 -	Freestanding	L 0	<b>*************************************</b>
Conference Center -		entrance							or vyrille Light				
(freestanding)													
Entrance Signs									Backlight		Building	Roofline	Roofline Sign must be located
(x) Hotel, Motel and	90 SF	1/facade,	40 SF						, constant		Mounted		at top floor of building,
Conference Center		no more than											otherwise max. area of
(1-3 stories)		3 signs											sign is 20 SF.
	1000	(Access) +	30 0g						Backlight		Building	Roofline	Roofline Sign must be located
(y) Hotel, Motel and	-50 S	I/Iacade,	Š								Mounted		at top floor of building,
Conference Center		no more crair							•				otherwise max. area of
(4-5 stories)		3 Signs											sign is 20 SF.
	1,000	1 12 - 1 2	20.08						Backlight		Building	Roofline	Roofline Sign must be located
(z) Hotel, Motel and	· S -	//acade,	5								Mounted		at top floor of building,
Conference Center		TO HOLE WALL							****				otherwise max. area of
(6+ stories)		3 signs											sign is 20 SF.
			1000	4 5	30 SE	ر ب	45 SF	8 FT	Backlight	10 FT	Freestanding	3 15 FT	
(aa) Movie Theaters -		N	ZO 25		3	)			or White Light				
Theater Name Entrance Sign			1000								Building	Roofline	
Theater Name Building Sign		-	50 St								Mounted		
Movie Title Building Sign		1 per screen	20 SF		10.00	*	70 27	8 5.1	Backlight	10 FT	Freestanding	g 15 FT	Dríve-through
(bb) Restaurant -	60 SF	ო	20 SF	<u>۔</u> ئ	30.51	<u>.</u>	5 }	· •			Building		menu does not count
(Freestanding Building with											Mounted		toward sign area.
up to 4000 SF floor area)													

Section 5-1204(D) Signs

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PAGE 9

**5** Section 5-1204(D)

ORAF	Ground Mounted Ground Mounted Structure Sign Background Structure	Sign Aggregate Sign Area Aax. Number of Signs Signs Any One Sign Max. Area of Multiplier Max. Area of Multiplier	(ii) Business Signs (Signs of a been listed or described prematers which have not premises.         Afficestanding control premises.         20 SF and lights of a context and the premises.         1.5 and services of freed on the premises.         1.5 and services.         1.5 and services.	(Amana)	2 120 SF   5FT   2 120 SF   5FT	wounted wounted wounted the right	1.5 30 SF 8 FT	entrance		20 SF 1/tenant 20 SF Mounted Mounted	
SECTION 5-1204(D		LAND USE/ SIGN CATEGORY (or similar) (See Note 6)	(ii) Business Signs (Signs of a character which have not been listed or described heretofore provided they advertise only goods or services offered on the premises.		4) INDUSTRIAL SIGNS (a) PD-IP and PD-GI	Development Entrance Signs	(ta) Flow Indiantial	Light Industrial/Warehouse -	Entrance Signs	(c) Flex Industrial/	



July 18, 2006

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PAGE 11

	- SIGN	SECTION 5-1204(D) - SIGN REQUIREMENTS MATRIX	ENTS MATE	XIX	ב	י בערט				THE STREET, STATE OF THE STATE OF			
				Ground Mounted Sign	lounted n	Gro Backg	Ground Mounted Background Structure	nnted ructure					
LAND USE/ SIGN CATEGORY (or similar) (See Note 6)	otal Aggregate Sign Area	ax. Number of Signs	Max. Area of Any One Sign	Bonus Multiplier	Max. Area of Any One Sign	sunoa Multiplier (See Mote 1)	Max. Area of Background Structure	Max. Height of Background Structure	noitsnimulll bettimre9	Min. Setback From R.O.W. (See Note 2)	Type Permitted	Max. Height (See Note 3)	Additional Requirements
		W	,		( VIVI O O								
SIS		(For Lemporary Heal Estate Signs, See Number 6 Delow	al Estate Signs,	See Number	D Delowy				None	5 FT	Freestanding	4FT	Permit limited to one
(a) Temporary Signs - On-	4 T S	-	4 ST						!		Balloons		(1) month from date of
											Banners		issuance, for no more
		-									Pennants		than 3 consecutive
											Inflated		months.
	•										Devices		
		Docococci	A SE						None	5 FT	Freestanding	4 FT	Permit limited to one
(b) Temporary Signs - Off-		neasonane	S r								Balloons		(1) month from date of
		indinder as									Banners		issuance, for no more
***************************************		determined by									Pennants	·	than 3 consecutive
		(rie zonnig									Inflated		months.
•		Administrator.									Devices		
_	20 SF	1/contractor per	20 SF						None	10 FT	Ground	8FT	Residential signs only
(c) Temporary Constituency	Commercial	job site									Mounted		In A-3,A-10,A-23,An,
1	10 SF	1/contractor	10 SF										Contractor to remove
ă .	Residential	per job site											sign upon completion
													of construction.



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SECTION 5-1204(D) - SIGN REQUIREMENTS MATRIX

Sign CATEGORY (See Note 5) (See					<b>Ground Mounted</b>	Aounted	Ground	<b>Ground Mounted</b>					
10 occess of the control of the cont					Siç	ll ll	Backgrou	nd Structure					
6 SF 1 6 SF   None   S FT   Freestanding   6 FT   12 SF   2 6 SF   None   S FT   Freestanding   6 FT   12 SF   2 6 SF   None   S FT   Freestanding   6 FT   14 Apropenty   4 SF   SF   SF   Freestanding   4 FT   15 SF   SF   SF   SF   SF   SF   SF   SF	LAND USE/ SIGN CATEGORY (or similar) (See Note 6)				Multiplier	Max. Area of Any One Sign	Multiplier (See Mote 1) Nax. Area of	Structure Max. Height of Background	noitsnimulli	-W.O.A mora			
12 SF   1	ACIO ELATOR IN TO VOL	330	W				2000 2000 2000 2000 2000 2000 2000 200						
12 SF   2		1		100					None	5 FT	Freestanding		
12 SF	(a) Real Estate - Residential For Sale Sign	6 SF up to 10 acres		P 0									
Truchicular   20 SF   Freestanding   6 FT   FT   6 FT		12 SF		6 SF									
1/vehicular   20 SF		more than 10											
1/vehicular		acres										┸	Charles of mile and a second
subdivision from state right-of-way         Mone acres); 2 upon any lot of less than 10 acres); 2 upon any lot in excess of ten (10) acres.         A /property         A SFT         Freestanding of FT         F Freestanding of FT<	(b) Real Estate - Residential		1/vehicular	20 SF					None	u. G	Freestanding		Area of all real estate
State right-of-way   State r	Subdivision		entrance to										Signs within the
State right-of-way   State r			subdivision from						····				Subdivisions willest store
1 (upon any lot of 20 SF less than 10 acres); 2 upon any lot of excess of ten (10) acres.  1 (upon any lot of 20 SF less than 10 acres); 2 upon any lot in excess of ten (10) acres.  1			state right-of-way										ohali ha no mora than
1 (upon any lot of   20 SF													four (A) constants feet of
1 (upon any lot of less than 10 acres); 2 upon any lot in excess of ten (10) acres.  1 (upon any lot of less than 10 acres); 2 upon any lot in excess of ten (10) acres.  1 (upon any lot in excess of ten (10) acres.  1 (upon any lot in excess of ten (10) acres.  1 (upon any lot in excess of ten (10) acres.  1 (upon any lot in excess of ten (10) acres.  1 (upon any lot in excess of ten (10) acres.  1 (upon any lot in excess of ten (10) acres.  1 (upon any lot in excess of ten (10) acres.  1 (upon any lot in excess of ten (10) acres.  1 (upon any lot in excess of ten (10) acres.  1 (upon any lot in excess of ten (10) acres.  2 (upon any lot in excess of ten (10) acres.  2 (upon any lot in excess of ten (10) acres.  2 (upon any lot in excess of ten (10) acres.  2 (upon any lot in excess of ten (10) acres.  2 (upon any lot in excess of ten (10) acres.  2 (upon any lot in excess of ten (10) acres.  2 (upon any lot in excess of ten (10) acres.  3 (upon any lot in excess of ten (10) acres.  3 (upon any lot in excess of ten (10) acres.  4 (upon any lot in excess of ten (10) acres.  4 (upon any lot in excess of ten (10) acres.  4 (upon any lot in excess of ten (10) acres.  4 (upon any lot in excess of ten (10) acres.  4 (upon any lot in excess of ten (10) acres.  4 (upon any lot in excess of ten (10) acres.  4 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10) acres.  5 (upon any lot in excess of ten (10													loti (4) aquare rect po
1 (upon any lot of the stranding of the stranding of the less than 10 acres); 2 upon any lot in excess   2 SF   Freestanding   4 FT   4 SF   4													hìghway.
acres): 2 upon any lot in excess of ten (10) acres.  10/total 2 SF combined for all builders per project  10 to the (10) acres acres are served acres and in the served acres			1 (unon any lot of	20 SF					None	5FT	Freestanding	L	
acres); 2 upon any lot in excess of ten (10) acres.  10 ten (10) acres.  11 10/total 2 SF builders per builders per project  acres); 2 upon any lot in excess of ten (10) acres.  None 5 FT Freestanding 4 FT Freestanding 4 FT acres acre	(c) Heal Estate :		I (upon mily io. c.	i									
ary lot in excess of ten (10) acres.  10	Commercial For Sale Sign		less man so										
any lot in excess         any lot in excess         A / property         4 SF         Freestanding         4 FT           ry         4 / property         4 SF         Reestanding         4 FT           rx         10/total         2 SF         Reestanding         4 FT           combined for all builders per project         purject         Project         Reestanding         4 FT	o roma		acres); 2 upon										
ry         4 /property         4 SF         None         5 FT         Freestanding         4 FT           11         10/total         2 SF         None         5 FT         Freestanding         4 FT           combined for all builders per project         purjects         project         Project         Project			any lot in excess					, <b>.</b>					
ry         4 /property         4 SF         None         5 FT         Freestanding         4 FT           st         combined for all builders per project         builders per project         project         project			of ten (10) acres.								Lengestandin	ᆚᆫ	Conditions apply
2 SF         None         5 FT         Freestanding         4 FT           combined for all builders per project         project         project	(d) Real Estate - Temporary		4 /property					,,	None	<u></u>	00000		(see note 4)
combined for all builders per project	Open House - Off-Site									1	Cyclopatonoin	⅃L	Conditions apply.
combined for all builders per project	(e) Non-PD District Project		10/total	2 SF						5			(see note 5).
	Directional Signs - Off-Site		combined for all										
project			builders per										
	Security		project				_				***************************************	and the spinster of the spinst	HANDERSON OF THE PROPERTY OF T

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SECTION 5-1204(D) - SIGN REQUIREMENTS MATRIX

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Section 5-1204(D) Signs

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### GENERAL NOTES

- 1. Whenever a bonus multiplier is used for ground mounted signs, a landscaped base with a minimum depth of 36 inches on a side, must be maintained.
- 2. All signs must be set back the minimum distance from the road right-of-way, as specified, unless a greater setback is required by the Code of Virginia.
- 3. The maximum height column does not apply when ground mounted bonus' are obtained. Use the maximum height column for Ground Mounted Background Structure.
  - 4. The following conditions shall apply for permitted "Real Estate-Temporary Open House Off Site" signs.
    - a. Signs shall be located only at controlled intersections where there is a change in direction.
      - b. Signs shall be placed on private property only.
- c. Signs shall be in place only during hours the house is open plus one hour before and two hours after the event.
- d. Signs may be used for two (2) days on the weekends and three (3) days in the case of a holiday falling on a Monday, as well as one-half (1/2) day during the week.
  - e. The owner for the house or his/her designated agent must be present for the duration of the open house hours.
- f, Signs shall include a company name with direction arrow.
- g. Signs shall consist of a metal frame with composition sign of a semi-permanent type.
- h. Homeowners or their designated agent may not use "Non-PD District Project Directional Signs Off-Site".
  - 5. The following conditions shall apply for permitted Non-PD District Project Directional Signs Off-Site.
    - a. The location of signs must be approved by the County at the time of the sign permit application.
      - b. Signs shall be located only at controlled intersections where there is a change in direction.
        - c. Signs shall be placed on private property only.
- d. Signs shall not be permitted on any arterial road, nor on any road listed in Section 5-900 of this Ordinance.
- e. The signs may be installed after sundown Friday night and must be removed by sundown on Sunday. If Monday is a legal holiday, the signs may remain until sundown Monday.
  - f. The signs must be made of a permanent material, signs made of paper or cardboard are hereby specifically prohibited.
- g. Builders may not use "Non-PD District Directional Signs Off-Site in combination with "Real Estate-Temporary Open House Off-Site" signs. In selecting the most appropriate land use/sign category, the more specific listing would take precedence.



	Division	D: Landscaping, Buffering and Tree Preservation
Section 5-1300	Tree Pl	anting and Replacement.
5-1301	regulati damage	e. The purpose and intent of this Section is to promulgate ons for the planting and replacement of trees destroyed or d during the development or redevelopment process, at to Section 15.2-961 of the Code of Virginia.
5-1302	Genera	l Standards.
	(A)	All trees to be planted shall meet the specifications of the American Association of Nurserymen.
	(B)	The planting of trees shall be done in accordance with either the standardized landscape specifications jointly adopted by the Virginia Nurserymen's Association, the Virginia Society of Landscape Designers and the Virginia Chapter of the American Society of Landscape Architects, or the road and bridge specifications of the Virginia Department of Transportation. The County shall maintain current copies of these specifications available to the public.
	(C)	The minimum caliper of all deciduous trees planted shall be one (1) inch, and the minimum height of all evergreen trees shall be six (6) feet.
5-1303	Canop	y Requirements.
J-1000	(A)	<b>Site Planning.</b> A Final Site Plan, or Construction Plans and Profiles for single family attached units in those districts where applicable, required under Section 6-701, shall include the planting and replacement of trees on site to the extent that, at maturity of ten (10) years, minimum tree canopy shall be provided as follows:
		(1) Ten (10) percent tree canopy for sites zoned business, commercial, or industrial in the GB, PD-IP, PD-OP, PD-GI, MR-HI, PD-CC, PD-RDP, PD-SA, PD-TRC, PD-TREC, PD-TC, CLI, RC, and PD-H Districts.

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1 2 3		(2)	Ten (10) percent tree canopy for sites zoned PD-H and R-24 with densities of twenty (20) or more units per acre.
4 5 6 7 8		(3)	Fifteen (15) percent tree canopy for sites zoned PD-H and R-16 for multi-family and single family attached units with densities of eleven (11) to nineteen (19) units per acre.
9 10 11 12 13		(4)	Twenty (20) percent tree canopy for sites zoned PD-H and R-8 for multi-family and single family attached units with densities of three (3) to ten (10) units per acre.
14	(B)	For de	velopment requiring a plan of subdivision, but
15 16	(D)	not a s	site plan, property not zoned A-3, A-10, AR-1,
17		AR-2.	RR-1. RR-2, i.e. single family and duplex
18		dwellin	<b>igs.</b> When a plan of subdivision is required under ad Subdivision and Development Ordinance and the
19		propert	y is not zoned A-3, A-10, AR-1, AR-2, <u>RR-1, RR-2</u> .
20   21		a lands	scape plan shall be included at Record Plat or
22		constru	ction drawings, whichever shall occur first, that
23		provide	es for the planting or replacement of trees on the site extent that, at maturity of ten (10) years, minimum
24		tree car	nopies will be provided as follows:
25 26		irce cai	topics will be provided in
27		(1)	If the site has a tree canopy coverage of 20% or
28			more, the plan shall provide for the preservation,
29			or planting and replacement of trees on site so as to result in a tree canopy of at least 20%,
30			calculated at 10 years maturity.
31 32			
33		(2)	If the site has a tree canopy coverage of less than
34			twenty (20%) prior to recordation of the subdivision, the plan shall provide for the
35			preservation or planting and replacement of an
36 37			equivalent percentage of tree canopy coverage as
38			existed prior to development, calculated at 10 year
39			maturity.
40		(2)	Every platted lot shall have a minimum tree
41		(3)	canopy coverage of 2.5%, or 3,000 square feet,
42			whichever is less, calculated at 10 years maturity,
43 44			exempting lots for which no permits for new
45			structures will be sought and the designated parent
46			tract. Such trees shall be counted toward the

2				minimum tree canopy requirements in (1) and (2) above.
3				
4			(4)	Trees shall be planted at a density of one tree per
5				50 linear feet along all areas dedicated for use for
6				vehicular access. Such trees shall have a
7				minimum caliper of 1" and a height at maturity of
8				15 feet or more. Such trees shall be counted
9				toward the minimum tree canopy requirements in
0				(1), (2) and (3) above.
1				
12		(C)	Exclu	sions. For the purpose of calculating the area of a
13			site, to	o determine tree canopy coverage requirements, the
14			follow	ing areas shall be excluded:
15				
16			(1)	Properties reserved or dedicated for future street
17				construction or other public improvements.
18				
19			(2)	Ponds and unwooded wetlands.
20				
21			(3)	Properties reserved or dedicated for school sites.
22				playing fields and other non-wooded recreation
23				areas, and other facilities and areas of a similar
24				nature.
24 25 26				
			[(4)	Portions of a site which contain existing structures
27				that are not the subject of a pending application.
28				
29		(D)		ng Conditions. Existing trees which are to be
30				ved may be included to meet all or part of the canopy
31				ements, and may include wooded preserves, if the site
32				or record plat, or construction plans and profiles
33				fies such trees and the trees meet standards of
34				bility and life-year expectancy established by the
35			Zonin	g Administrator.
36		***		rs 11 '.a'. form the
37	5-1304	Variat		Reasonable exceptions to or deviations from the
38				this Section to allow for the reasonable developmen
39				other areas devoid of woody materials, including the
40				f wetlands, or when the strict application of the
41		require	ements w	yould result in unnecessary or otherwise unreasonable
42				ne developer, shall be considered by the Zoning
43		Admir	nstrator t	apon application by the owner.
44				

1 2 3	5-1305	<b>Enforcement</b> . Penalties for violations of the requirements of this Section shall be the same as those applicable to violations of other provisions of this Ordinance.
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### **Buffering and Screening.** Section 5-1400 1 2 Purpose. The purpose and intent of this Section is to facilitate the creation of a 5-1401 3 convenient, attractive and harmonious county; to conserve natural resources 4 including adequate air and water; to preserve the character of an area by 5 preventing or mitigating the harmful effects of one use on another use; and to 6 preserve and promote the health, safety and general welfare to the public. More 7 specifically, this Section is intended to mitigate the effects of uses on adjacent 8 uses by requiring a screen and/or buffer between the uses in order to minimize the 9 harmful impacts of noise, dust and other debris, motor vehicle headlight glare or 10 other artificial light intrusion, and other objectionable activities or impacts 11 conducted on or created by an adjoining or nearby use. Also, this Section is 12 intended to require the landscaping of parking lots in order to reduce the harmful 13 effects of heat and noise and the glare of motor vehicle lights; to preserve 14 underground water reservoirs and to permit the return of precipitation to the 15 ground water strata; to enhance the natural drainage system and ameliorate storm 16 water drainage problems; to reduce the level of carbon dioxide and return pure 17 oxygen to the atmosphere; to prevent soil erosion; and to provide shade. 18 19 Applicability. 5-1402 20 21 The provisions of this Section shall apply to all development where site (A) 22 plans and/or subdivisions are filed in accordance with the provisions of 23 Section 6-700 of this Ordinance or the Land Subdivision and 24 Development Ordinance. 25 26 The provisions of this Section are intended to complement the (B) 27 regulations of Section 5-1300 of this Ordinance. Trees planted to fulfill 28 the Canopy requirements of Section 5-1300 may also fulfill the 29 Buffering and Screening requirements of this Section. However, where 30 any provision of this Section imposes restrictions or standards different 31 from those of Section 5-1300 or any other County ordinance or 32 regulation or other provision of law, whichever provisions are more 33 restrictive or impose higher standards shall control, unless the intent is 34 clearly otherwise. 35 36 The following standards shall apply to the installation and Standards. 5-1403 37 maintenance of all landscaping and screening required by the provisions of this 38 Section. 39 40 The planting and maintenance of all trees and shrubs shall be in

following requirements:

accordance with the provisions of Facilities Standards Manual, and the

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(A)

- (1) The installation of all landscaping shall be done following the procedures established by the American Association of Nurserymen.
- (2) At the time of planting, all canopy trees shall have a minimum caliper of one (1) inch dba, and all understory trees shall have a minimum height of six (6) feet. Evergreen trees shall be a minimum of six (6) feet in height. Evergreen shrubs shall have a minimum height of thirty (30) inches. Dwarf deciduous shrubs shall have a minimum height of eighteen (18) inches.
- (B) Existing vegetation which is suitable for use in compliance with the requirements of this Section, when supplemented by new vegetation, if needed, so as to provide buffering and screening in accordance with the purpose and intent of this Section, may and should be used as required planting.
- (C) In addition to the standards set forth in this Section, the Board of Supervisors or the Board of Zoning Appeals may require more stringent requirements as part of an approval action of a special exception, variance, or as part of proffered conditions.
- (D) All landscaping shall permit site distances consistent with all current code requirements of Loudoun County and VDOT.

### 5-1404 Landscaping Plan.

- (A) Except as permitted by the provisions of Section 5-1305 below, a landscaping plan, including a parking lot landscape and screening plan, shall be submitted as part of every final site plan required by the provisions of Section 6-701.
- (B) Such landscaping plans shall be drawn to scale, including dimensions and distances, and shall delineate existing and proposed buildings, parking spaces or other vehicle areas, access aisles, driveways, and the location, size, and description of all landscaping materials and the installation schedule if materials are to be installed in phases extending beyond 90 days from the date of occupancy of the building or structure to which they are appurtenant.
- (C) The landscaping measures, as required by this Section shall be shown on such initial plan and shall be completed or bonded in accord with current County policy according to specifications prior to approval of any Certificate of Occupancy.

Ordinance.

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- (1) If the proposed use is in the same land use category or is a more intensive than the pre-existing use, the proposed use must provide the buffer yard type as required by the Buffer Yard and Screening Matrix.
- (2) If the proposed use is less intensive than the pre-existing use, the proposed use must provide the buffer yard type that would have been provided by the existing more intensive use as if it were subject to the requirements herein.
- (3) The Zoning Administrator may waive reduce and/or modify the requirement if it presents a substantial hardship or is considered unnecessary as identified in Section 5-1409.
- (B) Proposed development adjacent to a use developed subsequent to the effective date of this Ordinance. The proposed use must install plant units in order to bring the total buffer yard required between the two uses into conformance with the Buffer Yard and Screening Matrix.
- (C) **Proposed Development Adjacent to a Vacant Property.** To determine the buffer yard type for a proposed development which will be constructed adjacent to vacant land, the Zoning Administrator must first make a determination on the probable future use of the adjacent vacant land, using the Comprehensive Plan, Zoning Ordinance and Zoning District Map.
  - (1) If the proposed use is more intensive than the probable future use of adjacent vacant land, as determined by the Zoning Administrator, then the proposed use must provide a buffer as required by the Buffer Yard and Screening Matrix.
  - (2) If the subsequent use of the adjacent vacant land is more intensive than the probable use determined by the Zoning Administrator, and the subsequent use is required to provide a buffer prescribed in the Buffer Yard and Screening Matrix, the buffer yard installed by the first use may be taken into consideration by the Zoning Administrator in considering a reduction of required buffer.
  - If the subsequent use of the adjacent vacant land is less intensive than the probable use determined by the Zoning Administrator, the subsequent use must install the difference between the plant units installed by the pre-existing adjacent use and the number of plant units required by the Buffer Yard and Screening Matrix.

- (4) If the proposed use is less intensive than the probable future use of the vacant land, as determined by the Zoning Administrator, no buffer yard shall be required of the proposed use.
- (D) Contractual Reduction of Buffer Yard Abutting Vacant Land. When a land use is proposed adjacent to vacant land, the owners of both parcels may enter into a contractual relationship to provide for a buffer yard equivalent to the buffer yard which shall ultimately be required. Such a contract shall include:
  - (1) A statement by the owner of the vacant land of an intent to develop at no greater than a specified land use category consistent with reduced buffer yards.
  - (2) An agreement that the owner of the vacant land assumes all responsibility for additional buffer yards required by the development of his parcel with a more intense use than had been agreed upon.
  - (3) The contract shall be in the form of a covenant or deed restriction, recorded in the Office of the Clerk of the Circuit Court of Loudoun County, Virginia, which shall run with the land.

### (E) Special Situations.

- When the adjacent land is used for a wayside stand or other temporary use, the buffer yard type shall be determined as if the adjacent property were vacant as provided in Section 5-1406(C).
- If any property adjoins any existing or planned arterial road, except in the A-3, A-10, AR-1, or—AR-2, RR-1, or RR-2 district, the required buffer yard shall be in accordance with Buffer Yard Type 3, however, such buffer yard landscaping shall be supplemented by a landscaped earthen berm at least four (4) feet in height and not to exceed a slope of 2:1. This requirement may be waived modified, and/or reduced, or the location of the required berm may be adjusted by the Zoning Administrator, where necessary to preserve existing mature trees. No buffer yard shall be required for the A-3 and A-10 districts where such property adjoins any existing or planned arterial road.

(3) If any adjoining property is located within a zoned municipality, the Zoning Administrator shall investigate the applicable municipal zoning district regulations and shall determine which district established by this Ordinance is most equivalent. Requirements for buffer yards shall then be the same as if the adjoining property were zoned in the equivalent County zoning district.

### 5-1407 Buffer Yard and Screening Requirements.

- (A) Location. Buffer yards shall be located along the perimeter of a lot or parcel. Where a parcel extends into the center line of an existing road, the buffer yard shall begin at and extend inward from the ultimate right-of-way line of said road. Buffer yards shall extend to the lot line, parcel boundary or rights-of-way line, except where easements, covenants or natural features may require the buffer yard to be set back from the property line, in which event the buffer yard shall be in addition to such easements, covenants or natural features. Buffer yards shall be provided within the required minimum yard setback areas. If the minimum buffer width is larger than the yard setback, the minimum buffer width must be provided.
  - (1) In the case of driveways, parking areas, and accessory structures permitted within required yard setbacks, at least fifty (50) percent of the area of the required minimum yard setback area shall consist of permeable materials.
  - (2) If parking and/or loading is permitted within the required minimum yard setback area, then Section 5-1413 "Parking Lot Landscaping and Screening Requirements" shall prevail.

### (B) Screening Requirements in Buffer Yards.

- (1) Buffer yard requirements are stated in Section 5-1414(B).
- (2) Those plant materials identified in Section 5-1414(C) or their equivalents shall satisfy the requirements of this Section.
- (3) Whenever a wall, fence, and/or berm is required within a buffer yard, they shall be provided in addition to the plant units required.



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Use of Buffer Yards. A buffer yard may be used for passive recreation and it may contain pedestrian, bicycle or equestrian trails, provided that: a) minimal plant materials are eliminated, b) the total width of the buffer is maintained, and c) all other regulations of this Ordinance are met. Utility easements may be included within buffer yards provided that the utility requirements and buffer yard requirements are compatible and canopy trees are not planted within said easement. Vehicular entrances may cross a buffer yard. Signs, pursuant to Section 5-1200, may be located in the buffer yards.

**Buffer Yard Waivers and Modifications.** Buffer yard requirements may be waived or modified by the Zoning Administrator in any of the following circumstances. The Zoning Administrator may attach conditions to any waiver or modification in order to assure that the results of the waiver or modification will be in accordance with the purpose and intent of this Section.

- (A) Where the strict provisions of this Section would reduce the usable area of a lot configuration or size to a point which would preclude a reasonable use of the lot, buffer yards may be waived, reduced and/ or modified by the Zoning Administrator, upon showing that the building and/or the yard has been designed to minimize adverse impact through a combination of architectural, landscape and/or other design techniques.
- (B) The Zoning Administrator may waive, reduce and/or modify buffer yard requirements if in his opinion the topography of the lot providing the buffer yard and the lot being protected is such that the required buffer yard would not be effective.
- (C) The Zoning Administrator may waive, reduce and/or modify buffer yard requirements for single family attached dwelling units where a six (6) foot permanent fence has been provided to enclose a privacy yard (for rear yards and side yards) and such fence is architecturally designed and coordinated with landscape techniques to minimize adverse impact to adjacent properties.
- (D) The Zoning Administrator may waive, reduce or modify buffer yard requirements for any public use when such use has been specifically designed to minimize adverse impact on adjacent properties.
- (E) Buffer Yard Exceptions. When a land use is proposed adjacent to a lake, wetland, or other natural area, which is to remain undeveloped, and which is at least three hundred (300) feet in width, the Zoning

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- Administrator may waive, reduce, and/or modify the buffer requirements provided the intent of these regulations are preserved.
- (F) The Zoning Administrator may waive, reduce and/or modify buffer yard requirements for side and rear yards where lots zoned MR-HI, GB, PD-IP, PD-GI, MR-HI or CLI abut, upon finding that such waiver, reduction and/or modification is designed to complement proposed development of existing or proposed uses. In any case, a screen wall of a minimum six (6) foot in height or buffer yard shall be constructed where such side or rear yard is visible from the public right-of-way.
- (G) The Zoning Administrator may waive, reduce and/or modify buffer requirements for a telecommunications monopole which is co-located on a facility which is owned or controlled by a public use or fire and/or rescue company, or in areas planned or zoned for employment and industrial uses where such use is permitted by right, provided the site is architecturally designed and coordinated with landscape techniques to minimize adverse impacts to adjacent properties.
- (H) The Zoning Administrator, upon recommendation by the Loudoun County Sheriff's office, may waive, reduce or modify the screening requirements for any school use, upon finding that the screening requirements obstruct visibility and create a security concern.
- (I) In the A-3, A-10, AR-1. AR-2, RR-1 and RR-2 zoning districts, the Zoning Administrator may permit the required buffer to surround the proposed use, rather than to be located on the property line as required by Section 5-1407(A).

### 5-1410 Maintenance.

- (A) The owner, or his agent, shall be responsible for the maintenance, repair and replacement of all required landscape materials and screening and buffering as may be required by the provisions of this Section.
- (B) All plant material shall be tended and maintained in a healthy growing condition, replaced when necessary and kept free of refuse and debris.
- (C) Fences and walls shall be maintained in good repair. Openings within the barriers may be required by the Zoning Administrator for accessibility to an area for necessary maintenance.
- **Bond/Cash Deposit Requirements.** In lieu of installation of the landscape materials prior to occupancy, the applicant may post a bond acceptable to the County, conditioned upon satisfactory installation of the landscaping proposed in the landscape plan.

5-1411

**5-1412 Appeals.** Any person aggrieved by a decision of the Zoning Administrator may appeal such decision in accordance with the provisions of Section 6-1700.

### 5-1413 Parking Lot Landscaping and Screening Requirements.

- (A) General. Parking lot landscape and screening plan shall comply with the general standards in Section 5-1403 and 5-1404.
  - (1) Existing vegetation which is suitable for use in compliance with the requirements of this Section when supplemented so as to provide planting and screening in accordance with the purpose and intent of this Section, may and should be used as required planting. Additionally, vegetation which fulfills the requirements set forth herein for exterior parking lot screening may also be counted toward fulfilling the requirements for buffer yards set forth in other sections of these regulations.
  - When non-residential parking lots, travelways, alleys, loading spaces and like uses adjoin land zoned or planned for residential use, there shall be an opaque barrier constructed to provide a separation between the two uses. This can be achieved by a solid type fence no less than six (6) feet in height, or with densely planted shrubs and berms to provide a visual barrier. Berms shall not exceed a slope of 2:1.

### (B) Interior Parking Lot Landscaping.

- (1) Any parking lot, excepting single bay parking lots of twenty (20) spaces or less, shall be provided with landscaped open space along the perimeter of the parking area or areas, in the minimum rate of one (1) canopy tree per ten (10) spaces which shall be so located that no parking space is more than eighty (80) feet from a portion of the landscaped open space or parking island more than eighty (80) feet from a canopy tree. Landscaped areas between parking areas and buildings shall not be considered as interior landscaping.
- (2) The primary landscaping materials used in parking lots shall be canopy trees. Where possible, grouping of such trees is encouraged. Shrubs and other live planting materials may be used to complement the tree landscaping, and shall count towards the required landscaping.

- (3) The landscaping areas shall be reasonably dispersed throughout the parking lot, and shall have a minimum width of six (6) feet measured from back of curb. There shall be a minimum six (6) foot wide (back of curb to back of curb) curbed landscape island at the end of every row of parking - equal in length to the adjoining parking space.
- There shall be a minimum of one (1) canopy tree per required (4) landscape island. Where more than one island is combined in a linear configuration, canopy trees shall be provided at a minimum equal to the number of required landscape islands.
- The interior dimensions of any planting area shall be sufficient (5)to protect all landscaping materials planted therein; in any case a landscaped island shall be protected with a six (6) inch minimum curb.
- Areas used principally for storage of vehicles do not require (6)interior islands if such areas are screened from adjacent properties and public streets in accord with Section 5-1406 and 5-1407.
- Peripheral Parking Lot Landscaping. If any parking lot contains ten (C) (10) or more spaces peripheral parking lot landscaping shall be required as follows:
  - When the property line abuts land other than street right-(1)of-way.
    - Except where otherwise stated in this Ordinance, a landscaping strip ten (10) feet in width measured from the edge of pavement, shall be located between the parking lot and the abutting property lines, except where driveways or other openings may necessitate other treatment.
    - Parking and vehicular traffic circulation lanes shall be (b) screened with either berming, landscaping, or a combination of both to a minimum height of thirty (30) inches. Berming height of thirty inches shall not exceed a minimum slope of 2:1.
    - All service areas shall be screened from view through (c) the use of evergreen plant materials and screen walls, compatible with the building design. Service area screen walls, solid fences or fences shall be softened

with climbing vines, shrubs, or other plant materials. Plantings shall be a minimum height of six (6) feet and totally screen at least 75% of any one wall surface (exclusive of gates).

- (d) All utility equipment (i.e. meters, pedestals, transformers, etc.) not within the screened service area shall have a natural evergreen planting screen provided, but such plantings shall be planned and installed so as not to hinder the installation or maintenance of such utility equipment.
- (e) Peripheral plantings shall include six (6) shrubs per forty (40) linear feet of abutting land, and one of, or a combination of the following, which need not necessarily be installed on center:
  - (i) One understory tree per fifteen (15) linear feet;
  - (ii) One canopy tree per thirty-five (35) linear feet.

### (2) Where the property line abuts the street right-of-way.

- (a) Except where otherwise stated in this Ordinance, a landscaping strip ten (10) feet in width, exclusive of a required sidewalk or trail, shall be located between the parking lot and right-of-way line.
- (b) Parking and vehicular traffic circulation lanes shall be screened with either berming, landscaping, or a combination of both to a minimum height of thirty (30) inches. Berming shall not have a slope steeper than 2:1.
- (c) All service and loading areas shall be screened from view through the use of evergreen plant materials and six (6) foot solid fences or screen walls compatible with the building design. Service and loading area screen walls or fences shall be softened with climbing vines, shrubs, or other plant materials. Plantings shall be a minimum mature height of six (6) feet at time of installation and totally screen at least seventy five percent (75%) of any one wall surface (exclusive of gates).
- (d) All utility equipment (i.e. meters, pedestals, transformers, etc.) not within the screened service area

shall have a natural evergreen planting screen provided, but such planting shall be planned and installed so as not to hinder the installation or maintenance of such utility equipment.

- (e) At least one (1) tree for each twenty-five (25) linear feet of land abutting any right-of-way shall be planted in the landscaping strip; however, this requirement shall not be construed as requiring the planting of trees on twenty-five (25) foot centers.
- (f) Where peripheral landscaping required by this Section conflicts with street planting regulations of the Virginia Department of Transportation, the more restrictive standards shall apply.
- (D) Requirements for Parking Lots in Residential Districts. Where parking lots for more than ten (10) cars are permitted or required in residential districts, the following provisions shall be complied with:
  - (1) The lot may be used only for parking and not for any type of commercial loading, sales, dead storage, repair work, dismantling or servicing.
  - (2) A ten (10) foot wide landscaped open space area adjoining any street line or any lot zoned or planned for residential uses shall be provided, guarded with wheel bumpers or curb and gutter and planted in grass and/or shrubs.

## SECTION 5-1414(A) - BUFFER YARD AND SCREENING MATRIX

### ADJACENT LAND USE GROUPS

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PROPOSED LAND USE GROUPS		<del></del>	77	e	4	vs.	9	7	∞	6	97	=	12	E	
Group 1	N/A														
Dwelling, Single Family Detached															
Group 2		-		7	7	7	3	m	4	4	4	4	2		
Dwelling, Single Family Attached															
Group 3	-		<del></del>	7	2	2	m	8	4	4	4	4	2		
Dwelling, Multi-Family Congregate Housing Facility Continuing Care Facility Orphanage or other similar institutions															
Group 4	2	2	7	2	2	2	æ	3	4	4	4	4	7		
Day Care Center Church, Chapel Nursery School Elementary School															

Section 5-1400
Buffering and Screening

## SECTION 5-1414(A) - BUFFER YARD AND SCREENING MATRIX

### ADJACENT LAND USE GROUPS

PROPOSED LAND USE GROUPS		- News	7	es .	4	ĸ	9	7	æ	6	6 10	10 11 12	12	HAVE THE PROPERTY OF THE PROPE	13
Group 5	2	2	2	2	2	2	3	æ	₹	4	4	4	N/A		
Middle and High School Community & Recreation Center, and Library Auditorium, Performing Arts Center and Assembly Hall, and Theater (indo Municipal and Governmental Building and Structure Fire, Police, and Rescue Station Medical Care Facility Hospital	000r)														
Group 6	2	7	0	2	2	N/A	Z	N/A	A/Z	w	4	4	4		N/A
Financial Institution Office Business Service Establishment Retail Sales Establishment Health & Fitness Center Funeral Home, Mortuary, Crematory Personal Service Establishment															
Group 7	$\kappa$	ю	n	ю	3	N/A	~	N/A	N/A	8	4	4	4		N/A
Restaurant Hotel and Motel															

### ADJACENT LAND USE GROUPS

PROPOSED LAND USE GROUPS		<del></del>		2 3	4	w	9	7	œ	6	10	parent parent	2	13	
Group 8	8	6	3	6	3	2	N/A	N/A		N/A	4	4	7	N/A	A
Drive-in Bank Facility Fast Food Restaurant Drive Through Restaurant Auto Service Station Car Wash Mobile Home Sales and Service Motor Vehicle Sales and Service Parking Lot/Valet Service															
Group 9	4	4	4	4	4	4	4	N/A	N/A		4		4	N/A	
Utility Transmission Facility Public Utility Service Center, Storage Yard Telecommunication Facility Radio & Television Broadcasting Station, including Recording Studio Municipal or Governmental Storage Yards & Related Facility Water Treatment and Distribution Facility Kennel, outdoor	,uo														

# SECTION 5-1414(A) - BUFFER YARD AND SCREENING MATRIX - ATTACHMENT A

### ADJACENT LAND USE GROUPS

PROPOSED LAND USE GROUPS		Annesi	7	т	4	w	9	7	<b>∞</b>	6	10		12	53
Group 10	4	4	4	4	4	4	4	4	4	4	4	4	4	
Bus, Rail, and Truck Terminal Long Term Vehicle Storage Warehousing & Storage Facility Newspaper Offices and Distribution Service Lumber & Building Material Yard and Storage Facility Wholesale Trade Office and Storage Facility Heavy Equipment Sale, Rental, and Service Sand, Gravel, Coal & Earth Sales and Storage Facility Boat Sales, Storage and Service Recycling Center Vehicle Wholesale Auction														
Group 11	4	4	4	4	4	4	4	4	4	4	4	4	4	
Wholesale Printing Laundry, Cleaning, and Dyeing Plant Facilities for Manufacturing, Processing, Assembly, Packaging, Bottling, and Canning														

Section 5-1400 Buffering and Screening

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PROPOSED LAND USE GROUPS	_	7	7	8	w	9	٢	œ	6	10	=	12	13
Group 12 4	4		<b>+</b>	4	<del>1</del>	4	4	4	4	4	4	4	
Asphalt or Concrete Mixing Plant General Construction Company, including Hauling, Road Paving, Roofing, and Sewer Metal Fabrication Shop Metal Salvage and Open Storage Yard and Operation Agriculture Processing Facility Outdoor Movie Theater Wood Processing Facility or Sawmill Forging Plant Rifle and Pistol Range, outdoor Sewage Treatment Facility Sanitary Landfill Rendering or Tanning Plants Petroleum or Chemical Refining or Production Ship Yards and Boat Manufacture Junk Yard Fuel Sales													
Group 13 2 N/A N/A		2	7	2	N/A	N/A	Z	N/A	N/A	N/A		N/A	N/A

Section 5-1400
Buffering and Screening

July 18, 2006

Farming, including livestock and horticultural activity Fur Bearing Animal Raising Stable and Equestrian Center

### **SECTION 5-1414 B(1) BUFFER YARD TYPE 1**

### REQUIRED PLANT UNITS PER 100 LINEAL FEET

FRONT YARD BUFFE	R WIDTH
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10' Minimum

2 Canopy Tree(s) 0 Understory Trees

0 Shrubs

0 Evergreen Trees

REAR YARD BUFFER WIDTH

10' Minimum

1 Canopy Tree(s) 4 Understory Trees

6 Shrubs

0 Evergreen Trees

SIDE YARD BUFFER WIDTH

5' minimum

0 Canopy Tree(s) 4 Understory Trees

6 Shrubs

0 Evergreen Trees

### SECTION 5-1414 B(2) BUFFER YARD TYPE 2

FRONT YARD BUFFER WIDTH

REQUIRED PLANT UNITS
PER 100 LINEAL FEET

15' Minimum

3 Canopy Tree(s) 2 Understory Trees

10 Shrubs

0 Evergreen Trees

REAR YARD BUFFER WIDTH

20' minimum

2 Canopy Tree(s)

6 Understory Trees

10 Shrubs (75% of which must be evergreens)

0 Evergreen Trees

SIDE YARD BUFFER WIDTH

15' minimum

2 Canopy Tree(s)3 Understory Trees

8 Shrubs (75% of which must be evergreens)

0 Evergreen Trees

### SECTION 5-1414 B(3) BUFFER YARD TYPE 3

FRONT YARD BUFFER WIDTH

REQUIRED PLANT UNITS
PER 100 LINEAL FEET

20' Minimum 3 Canopy Tree(s)

3 Understory Trees

24 Shrubs

0 Evergreen Trees

REAR YARD BUFFER WIDTH

25' minimum 4 Canopy Tree(s)

7 Understory Trees

30 Shrubs (75% of which must be evergreens)

0 Evergreen Trees

SIDE YARD BUFFER WIDTH

20' minimum 2 Canopy Tree(s)

5 Understory Trees

20 Shrubs

0 Evergreen Trees

STRUCTURE REQUIRED IN REAR A six foot high stockade

YARD fence, providing a minimum opacity of 95%, or

a six foot high masonry wall.

BERM REQUIRED ADJACENT TO

An earthen berm with a minimum

AN ARTERIAL ROAD height of four feet with a slope not to exceed

3:1 planted with turf or ground cover material.

### SECTION 5-1414 B(4) BUFFER YARD TYPE 4

FRONT YARD BUFFER WIDTH

REQUIRED PLANT UNITS
PER 100 LINEAL FEET

20' Minimum 4 Canopy Tree(s)

3 Understory Trees

20 Shrubs

0 Evergreen Trees

REAR YARD BUFFER WIDTH

30' minimum 4 Canopy Tree(s)

7 Understory Trees

15 Shrubs

10 Evergreen Trees

SIDE YARD BUFFER WIDTH

20' minimum 2 Canopy Tree(s)

3 Understory Trees

25 Shrubs

6 Evergreen Trees

STRUCTURE REQUIRED IN REAR

AND SIDE YARD

\* A six foot high masonry wall

(poured concrete, cement block, brick, etc.) providing a minimum opacity of 95%, or a

stockade fence.

\* Note structures are required only where a use abuts a use of a lower intensity as defined on the Buffer Yard and Screening Matrix. Structures are not required between uses of equal intensity.



### **SECTION 5-1414(C)(1)**

### **CANOPY TREE:**

A deciduous tree, usually single trunked, with a definitely formed crown of foliage, which attains a mature height of at least 30 feet. Preferred species include, but are not limited to:

### Common Name

### American Sycamore

**Bradford** Pear

Crimson King Maple

English Oak Ginkgo (Male) Japanese Pagoda Japanese Zelkova Japonica Regent Littleleaf Linden London Plane

Pin Oak Red Oak Red Maple Silver Linden Sugar Maple Sweet Gum

Norway Maple

Thornless Honey Locust

Willow Oak Yellowwood

### **Botanical Name**

Platanus occidentallis Pyrus calleryana bradford

Acer plantanoindes Crimsom King

Ouercus robur Ginkgo bilboa Sophora japonica Zelkova serrata

Sophora japonica regent

Tilia cordata

Plantanus acerifolia Acer platanoides Ouercus palustris Quercus borealis Acer rubrum Tilia tomentosa Acer saccharum

Liquidambar styraciflua Gleditsia triacanthos inermis

Ouercus phellos Cladrastis lutea

### **SECTION 5-1414(C)(2)**

### **EVERGREEN TREES:**

A non-deciduous tree used for the purposes of screening, weather barrier, or accent planting. Preferred species include, but are not limited to:

### **Botanical Name** Common Name Llex opaca American Holly Pinus nigra Austrian Pine Thuja occidentalis nigra Dark American Arborvitae

Juniperus virginiana Eastern Red Cedar Picea abies Norway Spruce Pinus strobus White Pine

### **SECTION 5-1414(C)(3)**

### **UNDERSTORY TREE:**

A deciduous or evergreen tree which attains a mature height of no greater than 30 feet. Understory trees often times prefer shade and grow naturally under a canopy of larger trees. Preferred species include, but are not limited to:

### Common Name

American Plum Amur Maple Dogwood Downy Serviceberry Flowering Cherry Flowering Crabapple Golden Raintree Golden Chain Purple Leaf Plum

Red Bud Shadblow

Washington Hawthorne

### **Botanical Name**

Prunus americana Acer griseum Cornus florida

Amelanchier arborea Prunus (various species) Malus (various species)

Koelreuteria Laburnum Vossi

Prunus cerasifera bliricana

Cercus canadensis

Amelanchier canadensis

Crataegus plaenopyrum

### **SECTION 5-1414(C)(4)**

### **SHRUB:**

An evergreen multi-trunked woody plant that usually attains a mature height of no greater than 10 feet. Preferred species include, but are not limited to:

Common Name	<b>Botanical Name</b>
Azalea Cotoneaster Chinese Holly English Yew Euonymus Japanese Holly Japanese Yew Rhododendron Viburnum Winged Euonymus	various species various species Llex cornuta Taxus baccata various species Llex crenata Taxus cuspidata various species various species various species various species

1			DIVISION E: Performance Standards		
2	Section 5-1500	Perfor	manceStandards.		
4 5	5-1501	Purpo	se. It is the intent of these regulations to prevent land or buildings, including		
6		those 1	permitted by right or by special exception from being used or occupied in		
7		any m	anner so as to create any dangerous, injurious, or noxious activity such as		
8		fire, ex	aplosive, radioactive or other hazardous condition; noise or vibration; smoke, odor or other form of air pollution; electrical or other disturbance; glare or		
9		dust, C	liquid or solid refuse or waste condition, conducive or elements, (all		
0		referer	nced to herein as "dangerous or objectionable elements") in a manner or		
12		amoun	at as to adversely affect the surrounding area. It is also the intent of these		
13		regulat	tions to prevent the disturbance of land on steep slopes in a manner that		
14			s erosion, slippage, slope failure, or other conditions that adversely impacts		
15		the en	vironment.		
16	w 4 #0.0	77 a na <b>:</b> aa	g Districts Regulated. All permitted and special exception uses, whether		
17	5-1502	Zonin	ises are permitted as a principle use or an accessory use, shall operate in		
18		confor	rmance with the performance standards set forth in this Division.		
19 20		Comoi	ramine (1222 and 1		
21	5-1503	Applicability.			
22		(A)	Existing Uses. All uses shall comply with the performance standards set		
23 24		(, -)	forth in this Ordinance. However, any use which did not comply with		
25			these standards when enacted may be permitted to continue so long as the		
26			degree of nonconformity is not increased.		
27			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
28			Any use which is a lawful nonconforming use, and which on the effective date of this Ordinance complies with the applicable performance		
29			standards of this Division, shall continue to so comply. If, at such time,		
30			the operations of such lawful nonconforming use violate the standards		
31 32			specified herein, such operations shall not be varied or changed in such a		
33			way as to increase the degree of such violation.		
34					
35		(B)	Agricultural Uses. The standards contained in this Division shall not		
36			apply to any lawful agricultural operation.		

### 5-1504 Light And Glare Standards.

- (A) General Requirements. All sources of glare (direct or reflected artificial light) from any source (other than in connection with operating motor vehicles and/or street lighting) must not cause illumination in excess of 0.25 foot candles above background light levels measured at the boundary of any commercial or industrial use abutting any residential use or at the lot line with any residential district, or, in residential or agricultural districts, at the lot line of any adjacent lot. In addition, in the A-3, A-10, AR-1, AR-2, RR-1, RR-2, and CR districts, lights shall be shielded so that the direct glare of the bulb is not visible beyond the property line of the parcel.
- (B) **Method of Measurement.** Illumination levels shall be measured with a photoelectric photometer having a spectral response similar to that of the human eye, following the standard spectral luminous efficiency curve adopted by the Internal Commission on Illumination.

## 5-1505 Earthborn Vibration Standards.

(A) **Required Performance Level.** No use, operation or activity shall cause or create earthborn vibrations in excess of the peak particle velocities prescribed below.

#### (B) Method of Measurement.

- (1) Measurements shall be made at or beyond the adjacent lot line, the nearest residential district boundary line, or the nearest district boundary line as indicated below. Ground transmitted vibration shall be measured with a seismograph or complement of instruments capable of recording vibration displacement and frequency, particle velocity, or acceleration simultaneously in three (3) mutually perpendicular directions.
- The maximum particle velocity shall be the maximum vector sum of three (3) mutually perpendicular components recorded simultaneously. Particle velocity may also be expressed as 6.28 times the displacement in inches multiplied by the frequency in cycles per second.
- (2) For the purpose of this Ordinance, steady state vibrations are vibrations which are continuous or vibrations in discrete impulses more frequent than sixty (60) per minute. Discrete impulses which do not exceed sixty (60) per minute shall be considered impact vibrations.

# (C) Light Intensity Land Uses.

- (1) Light intensity land use standards apply to all residential districts, all industrial districts, excepting the PD-GI and the MR-HI district(s).
- Uses subject to these standards shall not cause steady state vibrations to exceed the maximum permitted particle velocities described below. Where more than one set of vibration levels apply, the most restrictive shall govern. Readings may be made at points of maximum vibration intensity.
- (3) Maximum Permitted Steady State Vibration Levels:

6 4327

#### Area of Measurement

Type of vibration	At residential district boundaries	At other lot lines within district
Continuous	.003	.015
Impulsive (100 per minute or fewer)	.006	.030
Fewer than 8 pulses per 24 hours	.015	.075

(4) Between the hours of 8 p.m. and 7 a.m., all of the permissible vibration levels indicated above at residential district boundaries shall be reduced to one-half (+) the indicated values.

## (D) Heavy Intensity Land Uses.

- (1) Heavy intensity land use standards apply to the MR-HI and PD-GI district(s).
- (2) Uses subject to these standards shall not cause steady state vibrations to exceed the maximum permitted particle velocities described in the table below. Where more than one set of vibration levels apply, the most restrictive shall govern. Readings shall be made at points of maximum vibration intensity.

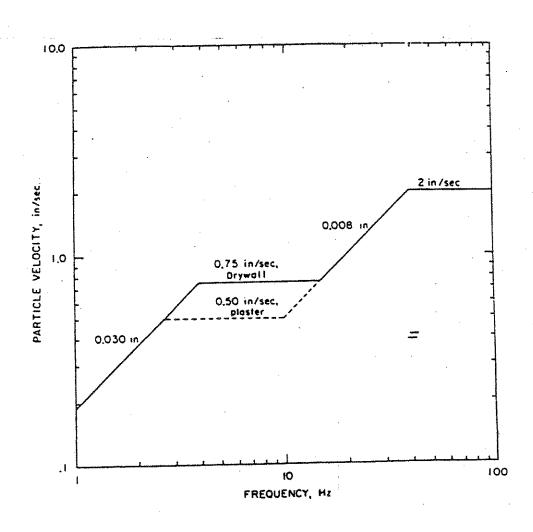
# (3) Maximum Permitted Steady State Vibration Levels.

#### Area of Measurement

Type of vibration	At residential district boundaries	At other lot lines within district
Continuous	.003	.030
Impulsive (100 per minute or fewer)	.006	.060
Fewer than 8 pulses per 24 hours	.015	.150

- (4) Between the hours of 8 p.m. and 7 a.m., all of the permissible vibration levels indicated above at residential district boundaries shall be reduced to one-half (+) the indicated values.
- **Stone Quarrying, Extraction and Mining Standards.** In addition to the performance standards set forth in this Division, all stone quarrying extraction and mining uses, whether in the Mineral Resource/Heavy Industrial District (MR-HI) or otherwise, shall satisfy the following additional performance standards:
  - (A) No permit for an extraction and mining use shall be issued for any tract of land containing less than fifty (50) acres. This requirement, however, shall not preclude the approval of a permit to enlarge or extend an existing extraction and mining use onto contiguous parcels.
  - (B) All blasting shall be limited to the hours of 7 a.m. to 6 p.m. or such lesser time as may be established by special exception.
  - (C) All vehicles used to transport excavated material shall be required to be loaded in such manner that the material may not unintentionally be discharged from the vehicle. Trucks shall be cleaned of all material not in the load-bed prior to entering the public streets.
  - (D) Landscaping and Screening Requirements.
    - (1) All areas within 100 feet of an adjacent public road or a zoning district on land bay allowing or planned to allow residential uses shall meet the standards of Section 5-1400, and shall be landscaped, bermed, screened and maintained with natural vegetation to buffer and screen such areas.
    - (2) In addition to Section 5-1400 existing trees and ground cover along all other boundary lines shall be preserved, maintained and supplemented by selective cutting, transplanting, and addition of new trees, shrubs and other ground cover for the depth of the setback.
    - (3) The type, time of planting, design and spacing of planting screen shall be in accordance with Section 5-1400. Approval of maintenance of landscape areas by the Zoning Administrator shall be required for zoning permit extension and zoning permit renewal.
  - (E) Notwithstanding the provisions of Sections 5-1505 and 5-1507 of this Division, all extraction and mining special exception operations shall be subject only to the following performance standards as they relate to noise and earthborn vibrations:

(1) Blasting vibration shall be limited to a peak particle velocity\* for a corresponding frequency level, as shown in the chart below.



\*Peak particle velocities shall be recorded in three mutually perpendicular directions. The maximum peak particle velocity shall be the largest of any of the three measurements.

Section 5-1500 Revision Date: June 17, 1998 Loudoun County Zoning Ordinance

- (2) Earth vibration produced from sources other than blasting shall not exceed a maximum resultant peak particle velocity of .03 inches per second.
  - (3) The peak over pressure (noise) from any blast shall be limited to 129 dB, as measured at 5 or 6 Hz high pass system.
  - (4) Airborne noise produced from extractive operations other than blasting shall not exceed the following limit, as measured at the lot line of the extractive industry: 80dBA maximum, continuous noise.
  - (5) For noise and vibrations induced by blasting, measurement shall be taken at the nearest off-site occupied building, measured in a straight line distance from the point of the blast.
  - (6) For noise and vibrations induced by sources other than blasting, measurement shall be taken at the property line of the extractive industry.
  - (F) In addition, the Board of Supervisors, as a condition of a special exception, may further limit vibration and noise levels where, in the Board's opinion, the existing and proposed surrounding land use or proximity of population in the area warrants additional protection.
  - Noise Standards. It shall be unlawful for any person to operate or permit to be operated any stationary noise source in such a manner as to create a sound level which exceeds the limits set forth in the following tables, except for extraction and mining special exception operations otherwise regulated herein. In addition, before 7 a.m. and after 7 p.m., the permissible sound levels, at residential district boundaries where they adjoin nonresidential districts, shall be reduced by 5 dba in the table for impact noises.

#### (A) Methods of Measurement.

- (1) Noise levels shall be measured with a sound level meter and shall meet or exceed performance standards for a "Type Two" meter, as specified by the American National Standards Institute.
- (2) Noise levels shall be recorded as A-weighted sound pressure level. The level so read shall be postscripted dBA.
- (B) Maximum Sound Levels (dBA). Measurements of noise levels shall be taken at the property boundary of the noise source. Where differing zoning districts abut, the more restrictive limit shall apply.

(1) Maximum dBA, Continuous Noise.

A331

Residential 55 Commercial 60 Industrial 70

Continuous noise shall be measured using the slow meter response of the sound level meter.

## (2) Maximum dBA, Impact Noise.

Residential 60 Commercial 70 Industrial 80

Impact noise shall be measured using the fast meter response of the sound level meter. Impact noises are intermittent sounds of a single pressure peak or a single burst (multiple pressure peaks) for a duration usually less than one second. Examples of impact noise sources are a punch press, drop forge hammer, or explosive blasting.

#### (C) Exemptions.

- The limitations stated above shall not apply within any district nor within any area subject to a Noise Exposure Forecast in excess of the 30 level as indicated on the "Noise Exposure Forecast (NEF) Areas in the Vicinity of Dulles International Airport for 1975 Operations, September 1969" as prepared by FAA. The boundaries of such noise areas within Loudoun County are indicated on the Zoning Map.
- (2) Sound created by the operation of power equipment, such as power lawn mowers, chain saws, and similar equipment, between the hours of 7 a.m. and 9 p.m. shall not be regulated by these noise standards.

5-150	Steep Slope Sta	Steep Slope Standards				
2 3 4 5 6 7 8 9	ai ai th re S s	eas cause erosion, result in structural failure of structures and roads, and lead to downstream flooding and other hazards. Development in ese areas also requires higher volumes of cut and fill and greater moval of vegetation than on flatter lands. The provisions in this ection 5-1508, including a prohibition of development on very steep tope areas greater than 25% and performance standards for development on moderately steep slope areas from 15% to 25%, are intended to be ecifically promote the following:				
11 12 13		Undertake development in a manner that will protect life and property from hazards due to slope, unstable and erodible soils, earth movement, and other geologic and hydrologic hazards;				
14 15 16	(	Reduce potential for increased erosion, sedimentation, and surface runoff, and the resulting adverse impacts on water quality;				
17 18	(	Promote a safe means of ingress and egress for vehicular and pedestrian traffic in sloped areas;				
19 20	(	4) Preserve the visual quality of steep slope areas, which are a valuable natural and economic resource; and				
21 22		5) Encourage innovative and imaginative building techniques to create structures and site plans that are suited to sloped terrain.				
23	<b>(B)</b>	Applicability and Exemptions.				
24		1) Applicability.				
25 26 27 28		(a) General Rule. Except as exempted in (2) below, this section shall apply to all land disturbing activity, including new development and subdivision, proposed on areas of properties containing steep slopes as those terms are defined in Section 5-1508(C)(1) below.				
29 30 31 32 33 34 35 36 37 38		(b) Steep Slopes in the RSCOD Conflicting Provisions This Section 5 1508 shall apply to steep slope areas, as defined in Section 5 1508(C)(1) below, that are located within a Protected River and Stream Corridor subject to Section 4 2000, River and Stream Corridor Overlay District (RSCOD). However, to the extent that the standards in this Section 5 1508 conflict with provision in the RSCOD (Section 4 2000), the standard that afford the steep slopes the greater level of protection shall apply				

1 2 3 4 5 6 7 8				(c)	Steep Slopes in the MDOD—Conflicting Provisions. This Section 5-1508 shall apply to steep slope areas, as defined in Section 5-1508(C)(1) below, that are located within the Mountain Development Overlay District and subject to the standards in the MDOD, Section 4-1600. However, to the extent that the standards in this Section 5-1508 conflict with provisions in the MDOD (Section 4-1600), the standard that affords the steep slopes the greater level of protection shall apply.
10			(2)	Exem	ptions.
11 12 13 14 15				(a)	Single Family Dwelling on Existing Legal Lot. A legal lot of record, intended for single family development, may be developed for a single-family detached dwelling use. Such exemption shall not apply to non-residential uses. Development on such lot shall be subject to all other applicable standards in this Section.
17 18 19 20 21 22 23 24				(b)	Agricultural Operations. Agricultural operations shall be conducted only in accordance with the Facilities Standards Manual and a Conservation Farm Management Plan approved by the Loudoun County Soil and Water Conservation District or the U.S. Natural Resources and Conservation Service that includes best management practices. Structures associated with agricultural operations are not exempt from these provisions.
25 26 27				(c)	<b>Timber Harvesting.</b> Timber harvesting shall be conducted only in conformance with a Forest Management Plan approved by both the Virginia Department of Forestry and the County.
28 29 30 31			(3)	allow	<b>ifications.</b> Administrative modifications of standards are red, in accordance with Section 6-408, "Modifications," of oning Ordinance.
32		( <b>C</b> )	Estab	lishmei	nt of Steep Slope Areas.
33 34			(1)	Ident class	tification of Steep Slope Areas. Steep slope areas are ified into one of the following two categories:
35 36 37 38				(a)	Very Steep Slope Areas. This category of steep slope areas includes land areas with slopes greater than 25%. Very steep slope areas shall be considered primary conservation areas for purposes of applying Conservation Design pursuant to Section 6-2004.
39 40 41 42				(b)	Moderately Steep Slope Areas. This category of steep slope areas includes only land areas with slopes from 15% to 25%. Moderately steep slope areas shall not be
	Section 5-1500				July 18, 2006

1 2 3					ered primary con ng Conservation
4 5 6 7 8		(2)	not ap square contig	oply to it e feet in guous ar	ze of Steep Slope isolated steep slop land area. For pure rea of the steep calculation, regar
9 10					nt land ownerships
11	( <b>D</b> )	Peri	nitted U	Jses and	Activities.
	(~)	(1)			lope Areas.
12 13 14		(*)	(a)	<b>Appli</b> with	cability. This so very steep slope (a), above.
15 16 17 18 19 20 21			(b)	Gener disturb excav- invest are pr	ral Prohibition bing activities, incation, grading, cigative land disturbhibited on any and under subsection
22 23 24			(c)	permi	itted Uses and A tted on very steable development
25 26				(i)	Passive recreati motorized use o
27				(ii)	Open space, and
28 29 30 31 32 33				(iii)	Limited land-d 5,000 square fer for the sole investigation. I to conduct or disturbing activ
34 35 36				(iv)	Minor utilities, standards in th in subsection (H
37 38 39 40 41 42				(v)	Municipal dring to obtaining a Permit" from the designee, accounts the Zoning A such addition
				12	

servation areas for purposes of Design pursuant to Section 6-

e Area. Steep slope standards do pe areas that are less than 5,000 rposes of this provision, the entire slopes shall be included in the rdless of the number of individual s involved.

- absection (D)(1) applies to lands areas, as defined in subsection
- on Land Disturbance. cluding but not limited to clearing, construction, reconstruction, and rbing activities such as test wells, very steep slope area, except as on (c) below.
- ctivities. The following uses are eep slope areas, subject to the standards in Section (E) below:
  - on uses, including trails for nonnly;
  - d other conservation uses;
  - isturbing activity not to exceed et in the aggregate on any property purpose of surveying and land No heavy equipment shall be used r undertake such limited landity; and
  - roads and driveways, subject to e Facilities Standards Manual and  $\Xi$ )(4), below.
  - king water supply reservoir subject in approved "Location Clearance he Zoning Administrator or his/her mpanied by as much information as dministrator deems pertinent and al information as the Zoning

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Administrator may require to approve such "Location Clearance Permit."

### (2) Moderately Steep Slope Areas.

- (a) **Applicability.** This subsection (D)(2) applies to lands with moderately steep slope areas, as defined in subsection (C)(1)(b), above.
- (b) **Permitted Uses and Activities.** All uses and activities allowed by right in the underlying zoning district, subject to the review procedures and standards in this ordinance.
- (c) Special Exception Uses on Moderately Steep Slope Areas. The County may permit all special exception uses allowed in the underlying zoning district, subject to Section 6-1300, "Special Exceptions."
- (E) Development Standards Very Steep Slopes. Development and uses on very steep slope areas shall be planned to minimize disturbance to soil geology, hydrology, and environmental features. At a minimum, development on very steep slope areas shall comply with the guidelines in the Facilities Standards Manual, applicable conservation design standards, and except for the development of municipal drinking water supply reservoirs, development on very steep slope areas shall comply with the following standards.
  - (1) **Grading Standards.** The applicant shall preserve natural landforms and minimize grading and other land disturbance.
    - (a) Cutting to Create Benches. Cutting and grading to create benches or pads for additional or larger building sites shall be avoided to the maximum extent feasible.
    - (b) Limits on Changing Natural Grade. The original, natural grade of a lot shall not be raised or lowered more than four (4) feet at any point for the construction of any structure or improvements, except:
      - (i) The lot's original grade may be raised or lowered a maximum of six (6) feet if retaining walls are used to reduce the steepness of man-made slopes, provided that the retaining walls comply with the requirements set forth in this Section.
      - (ii) As necessary to construct a driveway from the road to a garage or parking area, grading changes or retaining walls up to six (6) feet may be allowed



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- (iii) These standards limiting change of natural grade shall not apply to grading required to construct or excavate a foundation or basement.
- (iv) The Zoning Administrator may approve modifications to this standard if he/she finds that the application:

Is consistent with the intent of this Section 5-1508; and, results in less total site disturbance than would compliance with the maximum limits on changing natural grade stated in this subsection.

- (c) Grading for Accessory Building Pads Prohibited. Separate building pads for accessory buildings and structures other than private garages, such as tennis courts, swimming pools, outbuildings, and similar facilities, shall be prohibited on moderately steep slope areas.
- (2) **Excavation.** To the maximum extent feasible, excavation for footings and foundations shall be limited to lessen site disturbance and ensure compatibility with sloped terrain.
- (3) **Retaining Walls.** Use of retaining walls is encouraged to reduce the steepness of man-made slopes and to provide planting pockets conducive to vegetation, with adherence to the following standards:
  - (a) Retaining walls shall not exceed four (4) feet in height from the finished grade, except for:
    - (i) A structure's foundation or basement wall (i.e., a retaining wall may be part of a permitted dwelling unit);
    - (ii) As necessary to construct a driveway from the street to a garage or parking area; and
    - (iii) As otherwise expressly allowed by this Section.
  - (b) In no case shall a retaining wall exceed six (6) feet in height.
  - (c) Terracing shall be limited to two tiers, except that the County may approve more than two tiers when a greater number of tiers will result in less land disturbance and less steep man-made slopes.
    - (i) The width of the terrace between any two vertical retaining walls shall be at least five (5) horizontal feet.

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	Section 5-1500

- (ii) Terraces created between retaining walls shall be permanently landscaped or revegetated pursuant to Landscaping Standards in Section 5-1300.
- (d) Retaining walls shall be faced with stone or earth-colored materials similar to the surrounding natural landscape.

## (4) Roads, Driveways, and Minor Utility Standards.

- (a) All roads and driveways shall follow natural contour lines to the maximum extent feasible.
- (b) No roads, driveways, and minor utilities shall cross very steep slopes greater than 50%.
- (c) Roads shall not be constructed on very steep slopes greater than 25%, unless no other alternative exists to access a legal lot of record approved prior to the effective date of this Section.
- (d) Driveways and minor utilities shall not be allowed to cross very steep slopes greater than 25%. However, a short run of no more than 100 feet or 10% of the driveway and/or minor utility's entire length, whichever is greater shall be allowed to cross very steep slopes between 25% and 50%, based on a geotechnical study and findings that:
  - (i) Such driveway and minor utility will not have significant adverse visual, environmental or safety impacts, or appropriate engineering or other measures will be taken by the developer to substantially mitigate any such adverse impact; and
  - (ii) No alternative location for access and minor utility is feasible or available.
- (e) Shared driveways shall be required to the maximum extent feasible where their use will minimize or eliminate land disturbance, provided that shared driveways are subject to a common access easement.
- (f) The centerline grade of private roads and driveways shall comply with applicable standards stated in the Loudoun County Facilities Standards Manual.
- (g) Storm drainage and culvert design shall conform to the requirements of the Loudoun County Facilities Standards Manual.
- (5) Revegetation Required. Any slope exposed or created in new development on steep slope areas shall be revegetated or landscaped, except that Section 5-1300 shall not apply to agricultural uses.

- (6) Stormwater Best Management Practices. The applicant shall incorporate stormwater management best management practices and erosion and sediment control practices, as required by Chapter 5 of the Facilities Standards Manual and such practices shall be approved by the Department of Building and Development prior to issuance of a zoning permit.
- (F) **Development Standards Moderately Steep Slopes**. No zoning permit shall be issued for any use, structure or activity on any parcel of land which includes within its boundaries moderately steep slopes unless and until the following standards have been met:
  - The applicant shall obtain a locational clearance from the Department of Building and Development. The applicant shall submit a map, plan, or plat showing the location and extent of moderately steep slopes within the area to be disturbed, as well as the location and extent of land disturbing activities and mitigation measures including the proposed building sites, paved areas, drainfields, well locations, and other uses.
  - (2) The applicant shall obtain a grading permit in accord with the Codified Ordinance for all land disturbing activities on all slopes.
  - (3) The applicant shall incorporate storm water management Best Management Practices and erosion and sedimentation control practices as defined by the Facilities Standards Manual into the permit application, and such practices shall be approved by the Department of Building and Development.

## 5-1509 Administration of Performance Standards.

- Zoning Permit Procedure. Before the Zoning Administrator issues a zoning permit, the applicant shall furnish sufficient information to enable the Zoning Administrator to ensure that all performance standards and site development standards set forth in this ordinance can and will be complied with. The Zoning Administrator, in order to determine whether or not the applicant will meet such standards, may require the applicant to submit the following information:
  - A plot plan signed by the applicant and drawn to scale showing the location of all existing and proposed structures, drives, parking lots, waste disposal areas, bulk storage areas, streets, streams, or other significant features on or within two hundred (200) feet of the proposed site, not including public right-of-ways or easements.
  - (2) A description of the activity to be conducted regarding waste products, external effects or other conditions which are regulated herein; provided however, that the applicant shall not be required to reveal any trade secrets or sufficient detail with regard to a process which would cause any secret process or manufacturing procedure for a closely guarded proprietary compound or product to become public knowledge and be available to competitors.
  - (3) The type and location of abatement devices to control, or recording instruments to measure, conformance with required standards, not including devices and instruments which are inherent in the manufacturing process.
  - (4) Such other data and certification as may reasonably be required, in addition to the informational requirements of Section 6-1000, by the Zoning Administrator to reach a determination.
- (B) All information and evidence submitted in applications to indicate conformity to performance standards shall constitute a certification and an agreement on the part of the applicant that the proposed use can and will conform to such standards at all times.

## 5-1510 Enforcement of Performance Standards.

(A) Intent Concerning Determinations Involved in Administration and Enforcement of Performance Standards. Determinations necessary for administration and enforcement of performance standards set forth in this article range from those which can be made by a reasonable person using normal senses and no equipment to those requiring great technical

competence and complex equipment for precise measurement. It is the intent of this ordinance that:

- Where determinations can be made by the Zoning Administrator or other County employee using equipment normally available to the County or obtainable without extraordinary expense, such determinations shall be so made before notice of violation is issued.
- Where technical complexity or extraordinary expense makes it unreasonable for the County to maintain the personnel or equipment necessary for making difficult or unusual determinations, procedures shall be available for protecting individuals from arbitrary and capricious administration and enforcement of performance standard regulations and for protecting the general public from unnecessary costs for administration and enforcement.
- (B) Simple Determinations. If the Zoning Administrator finds that determinations of the nature indicated in Section 5-1510(A)(1) are adequate to demonstrate violations of performance standards in particular cases and if such violations exist, he shall take, or cause to be taken, such lawful action as is appropriate to cause correction of such violations. Failure to obey lawful orders concerning correction of such violations shall be punishable as provided generally for violations herein and in other laws or regulations affecting the case.
- (C) Complex Determinations. If the Zoning Administrator finds that determinations of the nature indicated in Section 5-1510(A)(2) are required to make precise measurements regarding potential violations of performance standards set forth herein and, if in his considered judgment, he believes there is violation of such performance standards, the following procedures shall be followed:
  - Notice and Answer. The Zoning Administrator shall give notice by registered mail or other means insuring a signed receipt for such notice to the person or persons responsible for the alleged violation. The notice shall describe the particulars of the alleged violation and the reasons why the Zoning Administrator believes there is a violation and shall require an answer or correction of the alleged violation to the satisfaction of the Zoning Administrator within a time limit set by him, but not to exceed 60 days. The notice shall state, and it is hereby declared, that failure to reply or to correct the alleged violation to the satisfaction of the Zoning Administrator within the time limit set constitutes cause for the Zoning Administrator to proceed with enforcement, as provided in Section 6-500. The notice shall further state that, upon request of those to whom it is

directed, technical determinations, as described in this ordinance, will be made and that if violations, as alleged, are found, costs of such determinations shall be charged against those responsible for the violation, in addition to such other penalties as may be appropriate. However, if it is determined that no violation exists, the cost of the determination will be paid by the County.

- Correction of Violation. If there is no reply within the time limit set, but the alleged violation is corrected to the satisfaction of the Zoning Administrator, he shall note "violation corrected" on his copy of the notice, shall retain it among his official records and shall send a copy to the alleged violator, in addition to taking such other action as may be warranted.
- Action--Continuation of Violation. If there is no reply within the time set (thus establishing admission of violation, as provided in Section 5-1510(C)(1)) and the alleged violation is not corrected to the satisfaction of the Zoning Administrator within the time limit set, he shall proceed to take, or cause to be taken, such action as is warranted by continuation of a violation after notice to cease.
- (4) **Time Extension.** If a reply is received within the time limit set indicating that the alleged violation will be corrected to the satisfaction of the Zoning Administrator but requesting additional time, the Zoning Administrator may grant an extension if he deems it warranted in the circumstances of the case and if the extension will not, in his opinion, cause imminent peril to life, health, or property. If the extension is not granted, the Zoning Administrator shall proceed to bring legal action, as provided in Section 6-500 of this Ordinance.
- within the time limit set requesting technical determination, as provided in this Ordinance, and if the alleged violations continue, the Zoning Administrator may call in properly qualified experts to make the determinations. If expert findings indicate violation of the performance standards, the costs of the determinations shall be assessed against the properties or persons responsible for the violation, in addition to such other penalties as may be appropriate under the terms of Section 6-500. If no violation is found, the costs of the determinations shall be paid by the County without assessment against the properties or persons involved.